CHILLED WATER STUDY EEAP PROGRAM

FOR

Walter Reed
Army Medical Center



US Army Corps of Engineers

U.S. ARMY ENGINEER DISTRICT, NORFOLK CORPS OF ENGINEERS NORFOLK, VIRGINIA

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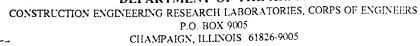
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ATTACHMENT A

Central Chilled Water Plant Logs

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	i <u>≅</u>	호.	ايىۋا	. 1		¥	ا د ہ	ļ	i	147	₹.	ایرا	٠.	3	. E	ģ. 53	₹ .	ایا	أبييا	
TIME	SUCTION	REFRIO. TEMP.	REFRIG. LEVEL	_	001	DISCHARG	COND.	z	5	POSITION C	BEARING TEMP.	LEVÉL	TEMP.	PRESSURE	MOTOR	SUCTION P RESSURE	DISCHARGE	OIL	REFR. LEVEL	COMMENTS
=	F	2 F	×	=	•	-	ا ۲	=	°	• ≃	a -	٦ -	۳.	•	3 4	~ -	°	0 -		
300	4/7	- \.	7.111	7	1/2	127			نا ج	1	T\$6	1/2	117	81	90					
30(400	49.	- 72	120	11.7	1.2.	126			÷ 2	Δ	75 G	73	120	80	97	PB.	INB	K 5	DF	
100	4. V		1.71	7.7	100	120		7	47.5		TS G	1/2.	120	కుం	33	19	15	679	9	
200	1/4		7011	17/25	1/25	126		72*	32.		750-	1/8	120	800	89		├		 	
300 400	179	 	F.11	3.5	1/2.5	126		21.5	39/5		736	1/2	119	80	87	 		-		
500	1 44		10	:, 7	10.5	127		72	83	 	750	1/5	120	31	88	 	 	 		
600		 	17.01	177	1/2	126		72	83		736	1/8	120	80	37					
EMAF					i										MECHAN	IC,2 SICH	Ba	2 20	0/45	
700	d 😾		14 1	195	111	125			84		7520	1111	120	50	8:-	1	1 Sa	1/2	10/	
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170	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 	-	+		+	-	-	-	_	-			 	 	 	+	+	1	 	
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TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	ž	опт	DISCHARGE	COND. TEMP.	3	оит	POSITION CAP. INDICATOR	BEARING TEMP,	LEVEL	TEMP.	PRESSURE	LIOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	TEVEL OIL	REFR. LEVEL	<u>7 e</u>	ј Соине К		· A ·
300	415		F.:	. 65	412	129		9 4	84	\	TSG	7/8		83	91					41	112		
400	415		<i>T</i>	1.6	177.5	130		10	55		75G	218	117	32	90	ļ		_		1-/2	175-	2 ,,	
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0500	44		FULL	1/5.5	11/5	118	ļ	75	81		156	1118	115	82	87	 		 	 	4//.5		37	
2300	114		For	115.5	111.5			76	32		756	7/3	115	82	88		 		 	177			
3 40C			F2.1	1.5	41.5			76	52		TSG	719	116	53	88	-	 		 	- 1/1			
2600			1	116	41.5			73.5	31		750	3/ 3	116	32	67	 	1	 	. 	111		6.	
REMAR		<u> </u>				1		تعتب			-				MECHAN	10,2 2101	B	· le	Mai				
0700	X 222		160	1 ,	T	1115		70	80	····	7	1.07 %	1/3	88	7A	1	T ~~	1	1	100			
0 80			1	-	75	1.8		20	80		78	7/7	115	88	75	1	1	—	1	-		,	
090			Fe //	14	42	100		70	80		756	7/8	118	88	75				Ī	111	43	70	€ 3
1000			F.	1. 62	1/2	ノンヤ	I	7.5	80		73	7/0	15	8 -	81					11	人	2.4	
1100			Fe 11	116	142	110		70	76	-	12 66	2/8	115	86	90	٠	ļ			1/	4	, .:	
150			1511	116	1/2	110		120	75		7×	7/1	113	84	20	 	 		 	1/2	٠	12.5	
1300		ļ	411	116	1/3	110	↓ -	70	76	 	L'à	17/8	1/5	35	96		+			1/2	2/5	3.5	٠,٠
140	<u>ئنن إلا</u>	L		1	116	1/2-	٠	1	1/5	<u> </u>	75	18	115	1.2		10,2 210	NATURE			1/2	1/5	65	60
15201		<u> </u>	61.	7											1 /	``							
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160			 			_	-		70	_			1	17.	8,	 	╄		 	1. 7.			
170			+	1 7		1.4		-	70	1	 	 	117	 	55	 	-		+	1			
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190			+	1	+	11	+	1.1	7,0	1-	4	1 7	1.17		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	+	+		-	+ -			
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550	<u> </u>				سترا	_		-1	-	1	<u>. L </u>	RUNNIN	TIME		HECHA	NC SEC	HAYURE	-1			TON	NAGE PÉR S	THI FT
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	#21	,	(Al .	R CONDI	TIONIN	G LOG							i i	OATE -	16	94
	· · · · · · · · · · · · · · · · · · ·		COOLER				CONDE	NSER				COMPRI	ESSOR				PUR	GE		WATE	R MAKE UP		,
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				WAT:				WATE TEM													GAL. USED		_
	-	_				SGE				N CAP.				SE.		- 2	RGE				<u>15</u> :	<u>-</u>	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	Ä	TUO	DISCHARGE	COND.	¥	OUT	POSITION C INDICATOR	BEARING TEMP.	LEVEL	TEMP.	PRESSUR	LIOTOR AMP S.	SUCTION PRESSURE	DISCHARG	OIL	REFR. LEVEL	Te	CONNENT		<u>ر ک :</u> ا
300	113	·	1			7.5			17.1	` /		<i>"</i>	115	32	7.1	ĐΒ	WB	KH	PP	412	44	1/2	- 3
400			F	1/5	41.5	100		62	66	ļ	T50	7/3	113	5.2	77	J.,	40	396	<i>-73</i>	1/2	41.7	1.7	
200				055	先	93		7.1	27		TSG	713	112	512	7/2		 	 	 	72.5	71	- 3.	- 7
300			17.	L-7,	र्ग्न	1-1		60	1545	-	TSG	113	112	6.7	77		 	 		4/3		7.5	
100	1/5		1 :	17,	411.5	\mathcal{I}		(-0	6.5		Ty	7.3	///	87.	73					17 1	\$ 1 ye	7	-
500			FUIL	455				42	63		756		111	43	77					43	75	7.1	1 ,
EMAR		<u> </u>	F!	4/5	-115	71	<u></u>	1.60	64	<u> </u>	1750	7.4	1117	4,2	MECHAN	IC'S SIGN	ATURE	<u> </u>	<u> </u>	+		:	```
	1		147	1-2-	1 1. 4	1.3.4	 	, -,-,	44		1734	7.00	1	1	50		10						
2 800 2 800			211	3%	70	123		17/2	41		78	7/2	115	-3:7	50				├	1/3	- 12 to 12 t	- 	
2900			1211	116	111	130		160	66		732	15/2	113	 }	80			 -		1/3	1/5	75	Z
1000			Full	116	10	140		40	660	1.0	732	7/8	115	30	75		<u> </u>			43	1/8	70	<u>۔</u> ش
1100			Fe 11	116	110	190		40	48		155	7/5	116	80	75	Ţ				43	1/11	70	Z
120			R 11	148	1/4	107	1	64	70		734	718	115	40	150					6-2	52	2.2	2
1300		——	EII	111	11/2	105		44	70		134	28		10	80	ļ				57	54	75	ز.
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_	<u>, 4.</u>	5_	4 4	OZ				+-							-	5							
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160			+	1 1/47		1/01	-	39	1	+-	1	-	-	1.3	 	+	+	┼	 	 	7		
180		1=	أأمر		13	17.77	-	3	77	-	11	1 77	1/	27	 ~~	1	-	-	 	15	- 1 -		
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200	a 4h		F.W.		42			(2)-	-511		10 V	- 1	1775	10	177		1	1	1	17.	17.7	(2)	
210			1000		U-			(4)	7//		17.4	12/	11.	-111	70					62 -	37	11	
550			1-11	i Us	1.27			1/2;			177	1.7	IG TIME	LVI.	U					13	17	11	
RENA	RK S		17	10.	78	(1)							121			NIC'S SIG			-	•	'3 3	E PER SH	HFT
VITA			<u>/_/_</u>	14	<u>ں ر</u>							1	1. 10			- Training		<u> </u>		· · · · · · · · · · · · · · · · · · ·	ننسلب	0.12	

MIT HE	サス	ALC								Ali	R CONDI				···					1	1	17 9	74
T.		, ,	COLER				CONDE	NSER				COMPRI	ESSOR				PURC	E		WATE	R MAKE	UP (READIN	G)
ſ	GPM				ľ	SPM			ļ			011	-				ļ	.	- 1		2400		
				WATI TEM				WATE													GAL. US	ED	_
TIME	SUCTION	REFRIO. TEMP.	REFRIG. LEVEL	ĸ	OUT	DISCHARGE	COND. TEMP.	<u> </u>	our	POSITION CAP. INDICATOR	BEARING TEMP,	LEVEL	TEMP.	PRESSURE	MOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	OIL OIL	REFR. LEVEL	5	R	ENTS	
300	44	Ŧ	1(-17	42	93		63	70	1	75	7/3	174	81	27			7.1		43	42	7.5	
400	214		8	1/77	42.5	99	<u></u>	63.5	71	1X	75G	715	113	9,1	90	100	1412	14 H	PP	1/5 L; 2	47	72	
100			ارع	117+	42.5	96		635	72	- 	13/-	7/3	1//3	31	23	7.70		2476	77	45	47	- 1	` :
200			= -1	1/15	43	90;		7.2	70		13/5	7/3	1112	81	80		 			-7.7 -1.2 +		. 7/	-2
300			F. 11	16	1/2	100		1/2	78	 	735	13/8	115	80	138				 -	1/5	177	70	9
500			12:11	1/8	1/2	110		1/2	20	 	734	7/8	118	80	90		 			1/5	117	70	4
600			12/1	1/2	1/2	110	 	UZ	70	1	175	7/8	115	80	40				-	1/8	112	70	
EMARI					<u></u>	14/	+						•		MECHAN	IC'S SIGN	ATURE	sb	211				
. /3. 6	141		h. 11	175	412	1108	 	162	70		750	1-7/8	11/5	80	90		1 13	1			1//	75	
70C	1 77		6.11	7.8	1/2	1/3		133	74	-	738	7/8	115	50	100	18	9	49	Z		1/5	75	
2900			Rill	178	4/2	110	-	70	76		75%	7/5	115	80	100						1/8	15.	
000			FIL	18	1/2	110		170	76		154	11/8	115	50	150						48	. 1	
1100			1411	48	1/2	110		70	16		754	1.218	115	10	100					15	48	7,	
200	3 44		Jul!	118	1/2	110		70	76		15	7/8	118	80	100			L			44	2.0	
300	1/1/		5 4	118	142	115		73	128	₩	TSG	17/8	118	180	110	<u> </u>	<u> </u>		ļ	14	118	\$	100
1400		<u> </u>	11 "	118	1/2	1/20		1.77	178	ــــــــــــــــــــــــــــــــــــــ	75	7/8	115	180	1104	110'5 516	MATURE		ــــــــــــــــــــــــــــــــــــــ	115	116	5	
EMAR	ıKS.														70								
150	0//1		PA	150	1 Uz	1/35	3	140	14%	1-	DU	17:	1115	Ki	735			1			Lf.	13	Ŀ
160			1121	10	120	. 73)		317	177		カツ	61	111)	170	1735			L		· - £1	111		
170			11.14			1/32		137	18X-	12	1///	17/1	11/1	XU	(73)	1				U.	4,	77.7	
180	a UU		134	150	142	1.35		111	188.		DY	1.2	1:12	177	1135				Ь	1/	4)	-يوب	:-
190	a/1/1		77		1/2			1.1	133	1-	130	17/1	141	17/	107	1	1	 	1	10/1			<u></u>
200	O CH.		11-11	1 CT.	14		2	140			177	W	Щ	80	1101			-	+	77	100		
210	0 1		1		4	= 115		(an	170		177	2/1		M	145			┼—		1.371			<u> </u>
220	0 .		17.7	2	4	$\perp u$		LLD	170	4	17.74	ROKET	HO TIME	135	46.	H 2 2 5 6	HATURE	<u> </u>			1170	NH AGE PÉR	SHIFT
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á		0	1 1	171	1 O	- /						1	24		1	04	V177	7				118.15	

NIT H	1/2	. [Al.	R CONDI	TIONIN	G LOG			4				1	Ja	1/8-	94
	-		COLER				CONDE	NSER				COMPRE	SSOR				PUR	GE		WATE	R MAKE UI	READING	7
	GPM					5PM						011				1					2400		
				WATE TEM				WATE													GAL. USE		_
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	¥	out	DISCHARGE	COND.	<u>z</u>	оит	POSITION CAP. INDICATOR	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	HOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. Level		COMMEN		<u> </u>
300	١/٤/	\ \ \	1011	LIES	1/3.5	_		7,	-1 7	\	+3G	1)/3	115	91	13%						1 3	69	6 33
400			Fall	119	112+	130		اينيا	5.5		T5 5	7/5	115	30	139	33	30	21	نرن <i>و</i> 1 : 7	2.0	7	61	
100			For	1/9; 1/9	112	128		34.5	79,		75%	7/3	116	31	135	33	30	× /	- /		42	65	63
)300			70	41.7	1/2	1/22		193	1) 5.5		T36	7/5	716	3,1	127			· ·		L/2	477	25	
100			11:	117	42	12 %		12	777		730	7/3	.115	32	124					4/2	47	63	57
500			(-J)	117-	412	131		21	(2,17		+34	113	115	32	122					5/4	47-	2	57
600			1 1	112	1.3	120		6	7-1		P	, ,	115	8:	112	IC'S SIGN			<u> </u>	41.		٠٠٠ غ	11 -
EMAR	KS							•							MECHAN	10.2 2101	BIORE	2	7	4			
3700	1.1.		FI	1180	1/2	110		48	76		TSG	7/8	115	80	110						1/5	45	40
0 800			1.1:	16	٠.:	177		154	74	<u> </u>	78	12/8	1/4	180	10	36	18	54	15		12	_ي:	40
9900			秦/1	1/8	1/2	1/31		108	75	 -	1	4/5	 ///§	80	1128			-	 	425	97-	69	4
1000			3	49+	43	126		67	76	-	122	- 1 /2	1/12	185	1/33			┼	├	452	47-	45.	.j.
1100			77	30	43	1738		- 2-7	77		1255	7)8	1/10	81	135			-	 -	45 3	7.5	73	- 72
1300		 	1	56				1.12	73		75.0				138		 	 	 	774	- 3, 5	-7-	- 5-
1400			4.57					1/5			752	+17	11/5	र्श	135		1	1		4.1	47	71	- 3
TEMAR							MA_441=								MECHA	NC'S SIG	NATURE	•		0,61			
150	0 44	T	110	45	4 -	:13		67	76		17.5 %	116	1114	13:	112	DB	شا زین	r= 1+	100	41,5	4८	Jī	/
160			1: /	3				127	170		1.5.	1 4		5 4	li 😓	(.)	14.	47	12-5	41.5	ij	-71	67
170		1		43.	1 43	111		6.1	16		7.5.6		_		1101	1	 _			42, 2	4.	71	ر , ,
180		<u> </u>	1	197	<u> </u>	107	ļ	.7	77			11.8		01	47		.		 	42	411,	76	رة خ
190		ļ	جنتيه	47	7 4-		 	12/2	1 / 5	-	T. 3.6.	3			3.0	1	-	 	+	112	64 1 -	<u> </u>	<u> </u>
500		 	173		11.2	127	 	(07	75		T. S. C.	7.4		31	33	+	 	╄	+	45	47. 31.	73	61
310		, 	1	1 48	4.2	100		128			1120				X 5	- 	 	+	┼──	4,4	ر) <u>د</u> و) لا	70	6
550		1				1.2						RUNNIN	IN THE	1-41	MECHA	HC S SIG					TONN	AGE PER SE	
[•					- 4 D	13	1	/			.,		1	To 1	
ı												1 -	- ! "	~	1 -	1 2.		<u>~ </u>				70.12	

NIT HA		_	1.6							Al 1	R COND	HINDIT	G LOG							i	DATE	19	7:1
			OOL ER				CONDE	NSER				COMPRI	ESSOR				PUR	SE		WATE	R MAKE UP		<u> </u>
ľ	SPM				G	РМ						011	L		. [2400		
f				WATI				WATE													GAL. USED		-
						w.				I CAP.				ų.		ย	a .						_
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	z	0U.1	DISCHARGE	COND.	3	DO.	POSITION C	BEARING TEMP.	LEVEL	TEMP.	PRESSURI	MOTOR	SUCTION PRESSURI	DISCHARGE	OIL	REFR. LEVEL		COMMENT	<u>2</u>	
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	GPM					GPM			İ			01	L.							2400	
	=	ď		TEM		RGE		YAT		POSITION CAP. INDICATOR	ġ.			IRE		7. 19. 19.	RGE			GAL. USED	_
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	ž	OUT	DISCHARGE	COND.	E	OUT	POSITION C INDICATOR	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR	SUCTION P RESSURI	DISCHARG	OIL	REFR. LEVEL	COMMENTS	
<u>30(</u>	UK.1		FII	57	50	14.		150	72		711	Z	120	80	14:					50 /	
юс			777. 107	-4		1.72			7/	<u> </u>	12 17	7/	2.2	62	132					FT 1. 45	
200		=	7-0.	177	1-11-	750		7	7	-	-	70		70	9	 				70 7	
300	73	_	Put 1	1-1	774	136	·	10 F.	-55		7/11	7/2	122	7	712						
toc			1717	77	46	125		100	-1-1-	-	7 11		725	12/1	17			-		2	
500			4900	57	44	10		101)	75		1.7		1.27	7.7.	11/4					4: 3	
600	1		1.217	7	44	12-1		0	72			-7	120	657	74				,	2 3	
MA	154	Y.H.H	PRuil	1:29) ZZ	600	% 2	8 19	201246	12/12/	E 47	515	1191	T 601	TE DI	E'SIGN	ATURE		1 1/4/2	17.	_
700	<u> </u>		1	50'	1/2			12.3	74	12.7	T56	7/3	114		148	ŕ		·	·/~~	1/1/2 9	
800			600	110	L/3	120		67	72.		- 2	7 7 7	113	9.1	110	110	194.			4115 118 3	- :
900			For	414.5		117		72	77		127	715	114	9,2	94	200	16	(67		7. 5 EV	- /,
200			77.	50	L/2.5	120		7.5	0.0 .	1	+3%	7 3	114	9.2	75					6PLPRIE	
20			Fee	50.5	1/2	123		7.5	32	h	753	7.3	115		97		ļ			7 7	
309			Foll	50.5		1/23		955	933		1	7/6	115	93	113		ļ	<u> </u>			
40		 	1	1, 7.1	112	12		75	34		756	7/3		82	10.2	 					
MAI						-				-	4	T	1.7.2		MECHAN	IC'S SIGN	MTUREY.	<u> </u>		L	
50	95	_	Full	167	143.5	1/27		175	Colu		1 - 0 6	(3/-	1 7	1 6 6			MTURE		mon	سو:	
60		1	Full	52	144	1/2 5	 	175	85	 	TSG	2/8	146	82	1772	├			-0		
70		1	Full	52	42	1/25	-	75	85	-	13.G	7/8	1//5	82	122	1313	WIZ	RH	0.0		
80		1	FILL	52	4/3 =			74	84	-	TSG	1/8	1/2	8.3	122	44	40	62	32		
90			Full		43	1/30	 	26	85	1	756	17/8	117	83	1220	 	70	1200-			
ac			Full	52	43.5			73	83		T56	1/8	1//2	83	1/27	—	 	 	 		
10			E:11		144	1/26		7.5	84		18.	1/8	1/17	82	122	1		$\overline{}$		i	
550			Full	52	143	122	1.	127	84		LSG	1/2	1/17	82	1225	I	I	L	1.		
EMA	FUE S											HUNAIN	G TIME		HECHA	cho	ATUE	20-	ion	TONNAGE PER SH 12 TO 6 8 TO 4	HIFT

HITH		11.1								All	CONDI	TIONIN	G LOG							Jan 24-94
			COOL ER				CONDEN	ISER				COMPR	ESSOR			-	PUR	GE		WATER MAKE UP (READING)
	GPM .				G	PM						011	•							2490
		•		WATE				WATE												GAL. USED
TIME	SUCTION	REFRIG. TEMP.	REFRIG. Level	<u>z</u>	our	DISCHARGE	COND. TEMP.	ž	OUT	POSITION CAP. INDICATOR	BEARING TEWP.	LEVEL	темР.	PRESSURE	LIGTOR AMP S.	SUCTION P RESSURE	DISCHARGE	UEVEL OIL	REFR. Level	COMMENTS
300 400																				
<u>400</u>	 		<u> </u>								ļ.——							ļ		
100	<u> </u>										 		-				 	 		
300 400 500	-		1														 	 		
260	3																	-		
500	1	1															· · · · · ·			
600) l																		-	
EMAR	K5														MECHAN	IC,2 21CH	ATURE			
3700	<u> </u>	1	T								<u> </u>							 		r
700	3												-					 		
2900	<u> </u>																			
000			 							<u> </u>										
100		 		<u> </u>				~ ~~		-								<u> </u>		
200		 	 	- 5	ļ							-	1	-	ļ		ļ	 		<u> </u>
300		+	1,,	107	70	124	1.4	1 c	11.7	147	15G	1/2	1 50	80	151.	 		₩	 	
EMAF	iks			L 17 1	1 / 5	1.5.	<u> </u>	-24		7.7.	1-0-	1///	11/5	2.9		IC'S SIGI	ATURE .	12 /	L	
			1000	1110	1	1 .5 /		 			1122		, ,				/	3 1	4.	
150		+-	Full	49	42			73	85		150	1/8	1/5	87	1/0		ļ	 	0	
60			Full	50	72.5	135		66	80		TSG	1 1/8		82	103		+	 	 	
180		-	Full	50	43	135					1456	1/2	17/7	83	100	 	 	+	├	<u> </u>
180		+	Fill	120	75	1/27	-	68	85	 	1486	 🕉	1115	हैं हैं	95	_			 	
500		+-	Fill	13/8	142	1/3/	 	70	83	1	136	1	1///	C/1	100	 	 		 	
210		1	Full	148	42,5		 	68	83	_	TSG		1//2	82	95	\vdash	 	-	-	
220		1	Full	199	42.3		-	70	33		13		1/17	82	95	 	 	1	 	
REMA					-				******			HUNNIN	d the	4. 16.16	HECHA	108 810	NATURE	11	ma	TONNAGE PER SHIFT 12 TO 1 8 TO 4

NIT H	2 1/	ork								All	R CONDI	HIKOIT	G LOG							i	DAT	-24-	24
Ţ	GPM		COOLER				CONDE	NSER				COMPR	ESSOR				PUR	GE .		WAT		UP (READI	
	GPM					GPM						011									2400		
				WATE				WATE														ED	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	¥	оит	DISCHARGE	COND. TEMP.	ž.	our	POSITION CAP. INDICATOR	BEARING TEMP.	LEVEL	темр.	PRESSURE	HOTOR AMPS.	SUCTION PRESSURE	DISCHARGE	CEVEL OIL	REFR. LEVEL		СОММ	ENTS	
300	Цi,		TSR.	51	1/-	122		7.7	50	==	722	-/	1164	50	18								
юО		-	1.2	57	1/	1			- X			-7/		33	12					1/4	40	7)	73
100			157		<u> </u>	2-1			-5.		- 4	7;	/	1						, 0	•		
200			7.7		7	-57			-		-/-	-7	715	77 -				<u> </u>					
30C			100						- 6 - 			7	177	77						ļ			
200	14.		1-1	-						-:	-	-//-		V 1		<u> </u>		<u> </u>					
600			1			 	 		7	_	-	777	 	7.0%					<u> </u>	 			
EMARI								لمسبا	لسننسا		ļ		·		MECHAN	C'S SIGH	ATURE	<u> </u>	<u> </u>				
700	•		T	. ,			 	75	艺	1 1 2	-753	-7.2	1 5	31	35		,			\leftarrow			
800	112	-	1	50	4.2	 		100	27	- }	75:0	710	115	2,2	33				<u> </u>	DB	Lett.	A 4	1.1.
900			11	7 173	1/2	120		-7:	(2.2)		73:	7.3	177	4.2	151			 	 	1 1		· · · ·	
000			10	414.5	42	117		74	79		736	7/%	115	81	82					· · · ·			
100			F'	52	1/2	110		115	19.5		18	7/5	115	82	34		1		3	 			
500			127	51	-12	122		70	33		7756		115	92	145		111	17 :	ک اینے	30			
300		↓	1		112	130		26	82		750	- 3	114	97	127					11			
40C			1 1	1 3	1.	112:		2.5	(2) 25	Ī		·"1.5	1,2	5.2	99		<u> </u>					.1	
EMAR	N.3														MECHAN	IC'S 51G1	ATURE	B 3	· '				
500			Full	150	142	119		74	82		156	1/8	115	82	95			T'	T	12			
60			Full	50	142.5		L	24	80		756	1/8	117	82	.97					I .			
70		1	Full	50	73	115		124	80		7SG	1/8	117	82	95	DB	WB	RH	Dp				
80			Full	50	142	115		24	80		ZSG	1/2	1/15	82	95	57	48	48	70				
90		+	Full	49	142	1//3	-	74	128	-	75G		115	72	85								
200			FULL	50	1/2.	5//3		73	29		1220	1/8	1//5	85	85	ļ	<u> </u>						
310		+	FILL	120	1/2	1//0		133	28		TIG		115	82	83		 	1	ļ	L			
	0 45		FUIL	50	143	1/12	ححتك	1.72	128	1	75G	RUNKIN	115	82	85	ोट <u>र</u> ग्रह	1	<u> </u>	<u> </u>	<u> </u>			
^													- 1184		1	Ran	// "	'a'ai			TON	NAGE PER	SHIFT

NIT HE	H.									All	CONDI	HINOIT	G LOG							i	DATE	24
	<i>,</i> , ,		DOLER				CONDEN	SER				COMPRI	SSOR		1		PUR	GE		WATE	R,MAKE UP (
ſ	GPM				ľ	PM						011			٠ [
				WATE				WATE													GAL. USED .	·
TSIME	SUCTION	REFRIG. Temp.	REFRIG. LEVEL	×	out	DISCHARGE	COND. TEMP.	ž	out	POSITION CAP. INDICATOR	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR AMPS.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. Level		COMMENTS	
900 900																						
00																						
200				 															<u> </u>			
200																						
(00 (00			2-7	1 -1		21	.7															
200	7	111	. /	111	3	1711	/															
MARK									L								L					
			_												MECHAN	C'S SIGN	ATURE					
700 800	11,	363		110 (-125		7,5		111-	/	1.00	3	72	1.50	73	5	1			41.		
800	,	1 3 -		3 19 €	4/35				GH	X	105	3	127	1.75	75	3	1.5	500	12.	112	11")	9.25
90C		375	1/9"	19:	13-	35	97		90	 	163	31	127	19	87	6"	43	15.	;			
66		1-7/3	1/2	5:	1/2	-7-			16		10.	-7	12 1	17	7,	6	57	-	1/2	715		9069
200	,	1.30	-	6	17		-	23 939 531	-	7			17	~		-			n	~		
500															84							
400					L				<u> </u>						15							
MARI	K S														MECHAN	IC'S SIGN	ATURE	<u></u>				-
500	× ×																					
600	×				<u> </u>			-							L		ļ	1				
700	 	┪	 	-	 			-	-		 		 	 	ļ	-	<u> </u>	├-	ļ			
800	3	+		 		 	├	 		 	├ ─		-					 		ļ		
900]	+	 	 	+	 			 	+	 	-	├			 	 	 	├	 		
10		·	 	-	1	+	1	-	 	 	 		 	 	 	 						
200	3	1		1	1				-	-	1	-	CANADA CONTRACTOR	†	_	1	 	1	 	 		
EMAF	K S										Charles Services &	нинини	d TIME	****	HECHA	23.35	NATURE	***		L	TONN AG	E PER SHIFT
												1			ľ						12 TO	!

#/		21:	l								All	R CONDI	TIONIN	G LOG							ı	DATE /- 2 2
	GPM			COLER			ЭРМ	CONDE	NSER				COMPRI	SSOR		0	<u> </u>	PUR	GE :		WAT	R MAKE UP (READING)
						ľ							011	-		٠.						2400
					TEM				WATE TEM												i	GAL. USED
TIME		suction	REFRIG. TEMP.	REFRIG. Level	<u>z</u>	OUT	DISCHARGE	COND. TEMP.	Ξ	out	POSITION CAP.	BEARING TEMP,	LEVEL	TEMP.	PRESSURE	HOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. LEVEL		COMMENTS
300	12	(,)			المراحدة		730		7/1	40		114	7/	7	800	60						
400		+					- 1	3		-10	=	7)		175	1.46	=	 					
200		-				1.				79	<u> </u>		2/1	774	777			 				
300		.1		-						- 77	=	777	1/1	- /-	10		-		-			
400		7	<u></u>		7/7	11:	121		50	777	-	1771	20	111	22							
500		-		-	+7-7	(2)	133		711	5/1		17 77	-	11/	1				 -			
600		:			- 1	11	100		1	111		114	1/	7	-				 			
EMAR	K.S	:				-			•					-		MECHAN	IC'S SIGN	ATURE			•	
2700	<u> </u>	16		ا ارسل			111		1724	30	17	1+5:-	1/3	110	63	97	1				+	
2 800	3	417			43	42	154	-	70	87	Ϋ́	T507	13	117	81	74		 	-	 ,		· · · · · · · · · · · · · · · · · · ·
2900		17:					35		71	2000	7 V	75:	170	110.	61	8,3			—		-	
000		11.)				1	10		7: ,	25		70	115	119	92	90						
100		11/2		Fai	1/4.5		140		1/2	89		TY	119	118	82	74			1			
500		41.		1.0.	1/95		124		1.705	- 97		1750	1/8	117	82	75					· · · · · · · · · · · · · · · · · · ·	
300		F		1	り:`	17.	121		70	37.		75%	110	1.43	4,2	95						
400	_لإ				,	1 11	127		72.5	9:7	<u> </u>	700	112	11.7	32	7/-		<u>L</u>				
EMA	18.3															MECHAN	IIC,2 2ICi	IATURE	Br	1 11/2	y.,	
150	0	78		Fe 11	50	1/2	110		7Z	90		736	1/8	115	185	95	1.	T	1	T T		
60		/ Y ·		1,4	30	115	140		72	90		7:50	17.	11.		7.	L_					
170		·/ _		100	1.2	42			72	80		77	1/1	115	30	15	15	1/5	22	1.5		
180		18		14	50	1/7			72	90		7.84	1/8	115	155	80						
190		18		K"	50	1	135		72	88	ļ	730	11/4	173	165	90						
<u>500</u>		48	<u> </u>	Fe 11	150	100	135		70	88		T50	1/8	115	85	85						
ŠΪō		1/4	<u> </u>	1211	20	1/2	135	-	120	86		759	115	118	85	150	4					
550	떶.	1/4	L	14/	150	1/2	130		70	186	<u></u>	737	HUNNIN	1448	18%	80	12350	1		<u></u>	<u> </u>	
	na 3											•	Louinin	O THE		\$		NATURE				TONNAGE PER SHIFT

#2	· yor	-					•			Al	R CONDI	HINOIT	G LOG							,	DATE - S-2
	/		COLER				CONDE	NSER				COMPRI	ESSOR		1		PUR	GE		WATE	R MAKE UP (READING)
	GP M				ľ	SPM			ļ			011									2400
				WATE				WATE													GAL. USED
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	K	00.1	DISCHARGE	COND. TEMP.	Ξ	OUT	POSITION CAP.	BEARING TEMP,	LEVEL	TEMP.	PRESSURE	MOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. LEVEL		COMMENTS
300	ن ب	i i	T. de	.7)	¥ <u>1</u> .	1/2		71	5		7 /	25,	11)	77.	7					1/	
400				<u>لا</u>	<u> </u>	7/2			19			1.7	<u>'</u>	(3)						/	
200	1/2		7. 7.	- 9.	775				+		277	25					-				
300			1991		Ú Ž	1/2		1	10		1 - 57	614	7	7			 	 			
400			1	77	171	100		76	57	-	775	57	77 .	415	·-7:	_					
3500				7		1.77		97	117	١	1 1		1.75	141	4		1				
2600		<u> </u>						-7	12	_	17	12		. 322			L				
REMARI	K\$							•			' (MECHAN	IC, 2 SIGH	ATURE	7	Z.,	Z	
370C	1/1		1	-7.1	112	11-1			7	5.2	75.	7.5	775	- 22	. ,		1	1			
0 800			7	48.5	42	12-5		79	86		T.5 5	7.4	15	82	34					10.1 40	
0900		<u> </u>	1	4/5	LIA	122		77	92		757	77.72,	115	5,5				\Box		101	Z 3 40
1000		<u> </u>	Fil	-130	4/5	123		77.5	9,2		750		1	 -;			ļ	<u> </u>			
1500			Fr	4/3				3.	93		17.50	7/5	1.44	92	67	ļ	 	 		ļ	
340		-	+	5.0		1 3 -			9, 5		753	714	115	513 132	37		 	+		 	
1400			 	3	1	3.5			30	 	1755	7 3	114	51	23	 	 	 		 	
EMAR	ΚS						4-4-			·	Landinia	-				10,2 5101	NATURE		<u> </u>	<u> </u>	
1500	177	_	F.11	150	1/2	128		178	G4		736	1576	1110	180	90			,	-	-	
100		 	1/2//	00	1/2	728	-	11	Y0		750	7/2	115	YU	80	 	 	 	 '	1/=	5 20 35
170		 	FUIT	50	75	1/2×	-	75	-	 	1230	3/C	115	80	42	_	+	+		1/5 4	5 00 -35
180		 	14	10	1/2	120	1	78	_	-	7.5	7/8	115	80	C 5	1	1	1	 	 	
190	<u> </u>		L	30	1/-	120		76	82	 	756	7/8		10	60	+	 	 	 	 	
200		1	611	116	11/2	120	1	75	82		74	7/8	118	80	30	 	1	1	<u> </u>		
210			K1	1/8	1/2			78	80		735		11.5	80	80		1				
550	0 4/4/	1	K11	1/8	1/2	120	i	178			1558	17/8	115	80	HECH P	I	T	L		1	·
REMAI	RK S											HONNIN	GIME		HECH A	7 5 Si C	HATURE				TRINA REPERSHIPT

WRAMC FORE 367

INIT H										Al	R COND	TIONIN	G LOG							i	1-26-94
-	GPM .		DOL ER				CONDE	NSER				COMPR	ESSOR				PUR	GE		TAW	R MAKE UP (READING)
	GP				ľ	GPM						QII									2400
				WATE TEM				WATE TEM													GAL. USED
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	Z.	OUT	DISCHARGE	COND. TEMP.	£	our	POSITION CAP.	BEARING TEMP.	LEVÉL	TEMP.	FRESSURE	MOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	TEVEL OIL	REFR. LEVEL		COMMENTS
300	4		2019	50	16-	13.7		7/2	2)		TIA	1/1	118	80	420					_	
400	1,4	<u> </u>		72	10	132		22	37	=	74	7/	1/2	30	77		<u> </u>				
200	137		72,	4	11:	120		70	111		450	71	110	97	8					ļ	
300		-	177	30	123	134		-7, 1	. +7	-	177 14	1/1	1/7	177	110		-			 	
400	- F		311	30	1			,	30	_	1 4	7/1	172	30	उंग्रे के			<u> </u>		 	·
500			-27I	50	رزمرا	9		-17	KO.	1	176	111	¥	30	11 1					 	
600			10:11	50	40	140		717	KD		711	1//	48	80	120					 	
EMARI	(S				,	, -					1				MECHAN	IC'S SIGH	ATURE		122	1	
700	- 1		100	23.5	4 -	140	/_	2.5	13		T. S.r.	1/8	117	82	110		1		<u> </u>	1	
2 800			Fv.1	-40	417	141	Y	12933	39	X	156	- NO	117	93	772					-	
2900			F	50-	1/2	129		64	922	Г	14	1/3	117	83	113						
000			Ful.	49,5	41.8			22	79		T-6.6	44	116	81	110						
1100			EUI'	73	42	130		63	80		756	14	415	31	110	<u> </u>	L				
300			FULL	49	42	130		63	82		TSG	10	115	81	110		ļ	<u> </u>			
400			1	113	1/2	124		62		 	706	1/18	716	91	109				ļ	<u> </u>	
EMAR	Xs - L I									<u></u>	1/2	1/-	1 / 112	7		IC,2 SICH	ATURE	ــــــ	<u></u>		
60	N		8 7	166	1 22	120		134			1-	,	,					صدر فشر	2 mg	-	<u> </u>
1600		 	4 /	50	1/2	120	 	611	\$ 2 \$ 2	<u> </u>	7.50			80	105		100		1		
700		 	27	12/8	1/2	138		50	52		735	175	1/8-	80	110	27	27	79	27	ļ.	
800			The ill	118	1/2	136		70	86	-	730	1/6	1/3	80	110		 	 	 -	 	
900			Fe 11	1/8	1/2	140	†	10	86	 	734	1-1/2	115	80	110	 			├—	 	· · · · · · · · · · · · · · · · · · ·
200		J	1211	48	1/2	140		70	88	1	234	1778	1/1	80	105	1	 	 		 	·····
210	0116	T:	Se 11	1/8	1/2	1:10		70	80		234	118	118	80	100	 	t	1-		 	······································
550			FIL	1/8	./z	1.30	J.:	10	86		73.		118	80	90	1	1	1.	1	 	
REMAR	tic S											RUNNIN	G TIME		PECHA	103 201	ATURE	-	٠.		TONNAGE PER SHIFT

IN T MI	· 2	- [Al	R COND	TIONIN	G FOG							- 1	DAT	-26	-94
1	GPM		COOL ER			GPM .	CONDE	NSER				COMPRI	ESSOR				PUR	GE		WAT		UP (READ	
												011	L.		·	İ					2400 _		
		-		WATI				WATE TEM														SED	
TIME	SUCTION	REFRIO. TEMP.	REFRIG. LEVEL	×	OUT	DISCHARGE	COND. TEMP.	z	оит	POSITION CAP. INDICATOR	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. LEVEL		СОМ	ENTS	
300	4.,		71.	UFT	<i>9:</i>	11	-	77.	12.77		7	3/	11.	50	7)								
400				71					32			.77		12	٠٠٠٠		ļ			3.8	30	1/	130
100	<u> </u>		1211	UÝ	4	17:7			(1)		-	7.5	· /	77)							/ 14		
200			1.00	47	UI.	17-1			- (2) 		7.7	7.7	<u> </u>	80			<u> </u>	ļ		42	1/;	10	7 .
300 400			1	-1.	12	1-5			- 2.5	-		- (-	-	8	100					12 m	()	10	
200			777	- '/	117	17			7.7		-	77	-	82	100		├──	 		- 5/3	(2)	. 7.	<u>',</u>
600		=	121	77/2	45	1/2 F		-5(-	805		150	718	1/8	10	110					7/5-		7.72	<u> </u>
EMAR					12.	1/2-/-		المكتسبا	77.5		1119	-7/3	10		MECHAN	IC, 2 SIGN	ATURE	ــــــــــــــــــــــــــــــــــــــ	r	100			
- 6								, .,											7	7. 1	٠-		
200°			F	44		1/2		73	74	\rightarrow	TSG	7/5		-31	95	ļ		<u> </u>	/_	4/14	L		
2900 2900			1	43	и <u>:</u> Из	116		7/3	79	- 	756	7,0	115	32	95			<u> </u>		42	41	73	
1000			1	49		0		12	81		T.5.6.	127	115	71	47	311	35	1 3 2	2 "	42	47	<u> 83</u>	67
1100			Cult	41	42	120		7 4	86	-	F36	1/5	116	97	97			 	 	1/2	49	30	<u> </u>
200			Full	119	UZ	119		74	79		rso	7/8	116	81	97			171		42	4 19	31	<u> </u>
300			Fu:	41	J. 72.	., 4		74	. K =	1	T.S	100	115	127	47.		 	$\overline{}$	_	-	44	81	- 3
1400			1 .	-13	1 '2	.7	I	72	72	J	I36	7/5	115	31	96		T	1		4/2	179		
EMAR	KS														MECHAN	IC, 2 21CH	ATURE	,	1 .				
1500	12/	1	1.K 11	100	172	120	1	72	78	T		17/8	115	180	55	T				1121	7.1	ر . '	
160			12.1	50	1/2	120		72	28		ブダ、	7.16	11.5	120	95	1	 	1-	 	1/2	2.2		.
170	4/4/		F-11	50	1/2	120		77	78		735	7/8	115	80	89		 	_	 	42	48	90	ż
180	1/4		21	50	1/2	120		72	80	1	134	17/8	118	80	95			_		1/2	1/8	50	7
190			411	50	1/2	120		72	80		154	7/5	115	100	40			1	_	4/2	47	40	- 6
200			1/	48	1/2	115		72	80		759	7/8	118	80	90					41	417	90	6
510			R. 11	1/9	1/12	118		72	30		135	7/8	118	80	188		I			-//	43	90	U
550			12/1	198	1/2	1.08	1:	172	80	1	188	12/8	115	180	8					911	1/5	90	ئر ۔
REMAR	or z											HUNNIN	G TIME			ाटिड घटा 	HATURE				TO	13 TO 4	SHIFT

ит н	#//	3rK						1.2		All	R CONDI	HINOIT	G LOG								DAT	-27	- 94
	. /		COOLER				CONDE	NSER				COMPR	ESSOR				PUR	GE		WA	TER MAKE	UP (READI	
	GPM					GPW			ļ	1		01	L		. [2400		
				WAT				WATE												!		SED	
TIME	SUCTION	REFRIG. TEMP.	REFRIG LEVEL	×	00.1	DISCHARGE	COND. TEMP.	ĸ	оит	POSITION CAP. INDICATOR	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR AMP S.	SUCTION P RESSURE	DISCHARGE	OIL	REFR. LEVEL		СОММ	ENTS	
300	55		Ful!		43.5			68	82		TSG-	18	115	81	85								
400	49		Full	48	73	135		20	86		TSG-	78	115	83	90								
2100	50		Eu!	48	43	129		70	84		75G	18	115	82	85		 			AB	WB	RH	DP
2500	50		Full	48	43.5			20	85		13.00	1/2	115	82	85					24	23	85	21
400	50		Full	48	44	135		70	78		景を	18	115	87	85			<u> </u>		ļ			
500			Full	49	43	126		65	83		136	1/2	115	82	85				├──				
600			Full	49	43	121		70	82		756	1/8	1/3	8/	85		 						
EMARI					<u> </u>	1.464					17.00		1.70		MECHAN	IC'S SIGN	ATURE	rikan		<u> </u>	•		
3700	49		TFULL	150	L/2.0	+ 140	1	77	88	· · · ·	1150	1/3	1777-	182	105			man	<u> </u>	nous	UP_		
0 800	110,	- ×	Fui	50.		130	- ×	67	9.3	 \/-	150	1/2	1/5	92	47	VB	·VA	R #	נוע				
0900		7	1271	49	4/2	122		22	50 1.5	- / ` -	156	1/2	114		92	22	21	989		0	BW B	10	PY
000	1/4		17.	48	\$ 42	121		63	91		11/1	173	113	97	90		1-21-	1			20 21		
1100			80.11	11/3	1 72			6015	37		34.	119	115	52	95			1					
1500			An.	4/9	412			75	85		7 56	1/3	115	널	96								
300			FJI		4/2			68	31		45%	1/3	11.61	5)2	45								
140C	50	<u> 1</u>	FJ	1 118	1 117	132	1	6813	84	<u> </u>	756	113	115	82	96	L	<u> </u>			1			
															MECHAN	IIC,2 2ICH	ANTURE	Bo	e 2	42.1	-		
	50		1/-11	11/8	1/2	120			84.1		135	1/8	118		95					23	23	29	1
160		ļ	Fe 11	1-18	1/2	120		198	84		120	1/8	118	86	70								
170		 	Fe /1	18	1/2			1.5	84		737	1/8	115	180	90								
180		 	15/	11/6	1/2	129	<u> </u>	45	8.1		78	1/1	115	80	100	<u> </u>	<u> </u>	<u> </u>					
190		 	2	1/8	1/2	130		120	85		155	11/4	115	180	100		<u> </u>						
500				1/8	_			76	186	ļ	1739	118	11/6	100	25	ļ	<u> </u>	-		<u> </u>			
<u>310</u>			12	144		1.10		70	150		734	-14 5	115	100	132	 -	ļ	-	 				
550		٠	<u> </u>	1	1/2	11/4	1	1/0	LYY	-	The	HENNIN		188	HECHA	16.336	NATURE	<u> </u>	<u></u>	<u> </u>	1 - 0.		
								•							1	ζ'''					1701	HAGEPER	PHILL

	#2%	515								All	CONDI	TIONIN	G LOG							1	DATE /-	17-9	74
	GPW		COLER			GPM	CONDE	ISER				COMPRI	ESSOR			PURGE				WATE	MAKE UP	(READING	j
												OIL			·						2400		_
		·		WATE				WATE TEM							l	Ì					GAL. USED		_
71µE	SUCTION	REFRIG. TEMP.	REFRIG. Level	ĸ	OUT	DISCHARGE	COND. TEMP.	Ŧ	ошт	POSITION CAP. HIDICATOR	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. Level	Clark	СОММЕНТ	tree	,
300	47		Full	79	44	110		.72	76		7SG	7/8	115	82	85					L	\$	85	- 6
400	45		Full.	48	42	110		74	80		TSG.	7/80	115	82	85						76	82	6
100			Full	48	43	115		74	80		75 <i>G</i>	7/8	115	82	85					42	46	81	6
200	45		Full	48	43	110		74	80		TSG	7/8	115	82	क्ट							୧୦	<u>'</u>
BOC			Fuil	48	43	115		74	80		TSG	1/8	115	8/2	85						46	78	- 6
400	45		FULL	48	43	115		24	80		1256	1/8	115	82	50		ļ	<u> </u>	<u> </u>		46	77	- 6
500			FULL	79	43	-///		<u> 24</u> 74	28 28		75G	7/8	115	82	Ç,		 				46	86	2
EMARI		ا	P1111	4.7.	/.5	177		4//	10		704	78	1.775	82	85 MECHANI	C'S SIGN	ATURE	7	<u> </u>	72	76	85	_7
																		Kins	land	Bia	19 19		
70C		 /-	471	1195	72	113		23	29		750		115		- 457	ļ				42.5	47	82	6
2900 2900			75.	495		11/6		13.C	77.5	>	756	7/6		42	35	 	 	<u> </u>	<u> </u>	42.5	47	91	
200			F	119	7/2	1/17		72	74-		75	716	1/2	82	56				├ ──	1/2	· ::6	-91	<u>-ģ</u> .
1100			For	435	L/2_	116		72	.77		790	7/9		40	63.47			 	 	1/2	465	30	6.
200			27.1	445	L/2			72	785		15	7.3	11/15	52	67	-			 	6/3	46.5		کین
300			3.7	421	1/2	115		72	74,		756	773	114		22		 	1	†	-/2	1/.		6
400	45	T	9 000	1135	112	1 5.		. `' 7	3.5		+1.	,	3	51	7.		1		1	 		-//	102
EMAR	KS														MECHAN	16,2 2101	ATURE	RA	771.	475			
500	1/4	1	I.EII	148	117	1115		172	180		754	716	1118	180	85	Т —		1 Pr		10/2	7/3		
160		$\overline{}$	211	1/5	1/2	115	-	72	80	1	78	24	118	24	28	 	 	1-	 	1/2	1/2	75	<u>عــــ</u>
70			30	116	1/2	120		7.5	80		754	2/5	118	_	65		 		 	1/2		-7,2 -	
180			Fil.	118	1/2	120		72	80	1	759	7/5	118	80	55		l		 	11-1			
190			F. 11	148	42	120		126	81		169	7/8	115	150	E				T	112	1/2	74	
200	0 4/4	ل	1211	1/r	1/2	1/20		78	F7		TSG	7/8	115	80	8-5					1/2	46	75	
510		<u> </u>	12.11	118	1/2	120		18	89		736	718	115	80	55					1/2	1/1-	7 ~	- 4
550		1	1	118	1/12	120	1	174	LE/		756	7/Ý		50	8.8	12336				1/2	46	15	-
REMAI	uc s											RUŅĀIĀ	G TIME		X		MATURE				TOHN A	E PER SH	II FT

	/	l								, Al	R CONDI	HINOIT	G LOG								· OAT		.7.
			∞0L ER				CONDE	NSER				COMPR	ESSOR		· · · · · · · ·		Pus	GE		WA	TER MAKE	UP (READIN	
	GPM				ľ	GPM.						011	L		[
•				WAT				WATE							1						2400		_
	- [}	755-	(P,	1	Ì	TEM	<u>•</u> .					PRESSURE							GAL. U	SED	—
71ME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	¥		DISCHARGE	COND. TEMP.	Œ	OUT	POSITION CAP. INDICATOR	BEARING TEMP.	LEVEL	TEMP.		MOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. LEVEL		СОМИ	ENTS	
300			Full	48	43	135		<i>Z0</i>	85		TSG	78	117	83	100			 		-			
400	49		Full	49	43	733		69	85		ISG	78	117	83	100								
2100			Full	49.	43	135		72	85		TSG	1/8	117	83	100					514	WB	RH	D
<u> 200</u>	48		Full	48	42.5	128		28	83	ļ	TSG	18	117	81	95					25	2)	96	- Z
300			Full	48	73	140		7.9	88		TSG	1/8/	112	83	90								
400			Full	48	73	139		73-	88		TSG	1/8	1//	83	92	ļ			<u> </u>				
500			Fu!	78	73	127	 	26	84		15 G	18	7/2	83	90	ļ			 	<u> </u>			
EMARI			VEU II	7.0	43.	720		1,20	0.7	<u> </u>	TSG	1/8	117	83	90	IC'S SIGN	ATURE	 _	<u> </u>				
														•				Kirk	and.	Ma	rio-		
<u> 200°</u> C			Full	78	73	121		166	22		TSG	18	112	81	93								
0 800		ļ	Fill	47	71	137		168	85	ļ	TSG	18	1/2	82	105								
0900			Full	48	42.5	130		66	82	 	75G	1/8	1/2	82	100					D13	WB	RII	1)1
1100			Full	49	725	135	-	68	35	-	75G	18	1/7	83	105	 				33	33	100	33
1500			FULL	46	43	135		17	3.7		756	1/4	14/3	9 2	1/0	 		┼					
1300	+	l .	Evil	11.	47 3	175			100	 	750	174	1777	135	211			 		 	-		
1400			FUII	75	42	135	 	65	86		75.	1/3	11/2	192	112			 		 			
TEMAR	K'S												-			IC,2 SIG	ATURE	K. An	-//	1			
1500	48	1	F-11	146	11/2	135	1	48	166		136	1.16	1116	150	113	1	, , , , ,	4 1/2	1 × 2	12.0	• / • .		
160		†	12.	1//	1/2	145	_	68	22	 	12	 '/f	1//2	20	115	 	 	 		# 47	7 6	777	
	1/8	1	F-11	118	1/2	12/3		72	50	+	17.50	110	1/2	+8	123	-		 	 	54/	3 4	100	3
180		1	R11	100	1/21	11/5	1	72	130	1	175	11/2	1/10	185	125		 	+	 	 			
190		1	15.1	50	174	14/5	1	172	40	1	1732	116	4443	C 6-	12 0	-	 	 	├	 			
200			Fe.11	114	47	135	1	120	86	1	75	17/7	11/1	100	120	 	 -	 	 	-			
210	-		4.11	118	144	135		35	186		7.50	111	118	42	120		 	 	+	 			
220		T	Z	774	147	138		166	186		178	1770	11/6				1	+	1	 			
REMAR												RUNNIN		erratia	123 D	C 3 316	NATURE			A	TO	HAGE PER	SHIFT

UNITH	<u>2</u>									Al	R CONDI	TIONIN	G LOG							-	DATE /-	ンマー	*/(.
			COOLER				CONDE	NSER				COMPR	ESSOR				PUF	GE		WA.		UP (READIN	
	GPM					GPM						OIL									2400		
				WAT				WAT							1						2450		_
				TE	1P.			75					•		.					GAL. USED		_	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	Z	OUT	DISCHARGE	COND. TEMP.	ĸ	our	POSITION CAP.	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	OIL OIL	REFR. LEVEL	Very	COMNE	ENTS	: 4
300			Full	49	43	723		76	84		15G	7/8	117	82	85			<u> </u>		43	5,	78	67
240C			Full	1/9	73	/23		28	87		TSG	78	1/2	83	કડ					42.5	46.5	84	58
2100			Full	48	43	123		26	84		TSG	1/8	1/2	83	85		<u> </u>			42.5	46.5	83	5.7
<u> </u>			Full	72	42.5	20		26	84	 	120°	1/2	117	83	85		<u> </u>	ļ		42	46	81	66
2300			FULL	48	42	121		76	87		TSG	1/2	1/7	8.3	85		 	 	 	42	46	80	<u> چي</u>
3500			Full	49	192° E	112		75	84	 	136	1/2	7/7	83	85				 	72	46	79	67
600			Full	79	42	1336		75	84		75G		117	83	85		 		├	42	46	-27	_63
TEMAR						174.4										C'S SIGN	ATURE	\	<u>r </u>		46	76	62
200	46.		Full	1 79	1773	1 / 3 4		125	1 6 8	·	1002	5/-	1				,7	rich	ad	ma	all		
	75		Full	77	41	120		26	83		TSG	78	117	83	82			<u> </u>	<u> </u>	42.5	46.5	85	70
09 0	45		Full	49	135.5			72	87		75G	78 7%	117	82	90					4/	45	83	68
	4-		Full	49	42	1225		78	83		7SG	1/2	1/2	83	100		 	┼─-		1125	46	8/	69
1100			Full	79	43	1/25	-	78	85		13G	18	1775	83	100	 	 	┼──		42	47	79	-66
120	7 7		ſ:	49	73	128		80	37		756	7/3	113	83	101			-	-	22	-7/-	/7	- 69
1300			111:	49	47	123		90	97		756	7/3	115	93	101			1	_	17.			3 -
140		<u> </u>	FILL	1 49	43	130		179	85		736	7/5	115	03	ioz			1.2		42	47	.74	61
TEMAR	KS														MECHAN	10,2 2101	ATURE	A. F. D.	7	2-			
150	3 1/4		1/2	11/8	1/2	1725		180	184	· ·	1555	7 (115	80	105			1	rat 1	1200	77	20	,
160		l	R. 11	118	1/2	1-28		80	81		-37	7/2	118	80	100		 	 	 	1/2	1/5	多り	-
170			1/1	150	1/2	123		78	89		734	7/8	113		100		 	 	 	1/Z	45	80	48
180	0 721		1211	50	1/2	125		78	84	1	736	2/8	115	80	100			1	 	1/2	2/1	80	25
190			Fr 11	50	1/3	125	1	78		1	T54	17/6	1110	10	100		 	 	 	1/2	11)	80	4 5
200			8.11	148	1/2	125	1	78	84	T	754	7/1	118	80	100		—		 	1/2	117	- 22	6
210	044		11	1118		/25		76	1.79		750	7/1	115	80	100	${f extbf{ ex}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}$		1	—	1/2	4/7	7 5-	6
550	0 4.		1	1/19	1/2	120	1	7%	189		178	11	1//8	120	100	L	T		†	1/2	7/5	25	
REMA	RIES											RUNNIN	उ गामह		MECHA	।दिश्वद ्	ARURE		-		TON	AGE PER S	HIFT
1						•						1			1 -	\sim					, ,	T8 :=	

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NIT H		10, 2								All	R COND	нікоіт	G LOG								OATE	29-	90
	GPM		COOLER				CONDE	NSER				COMPR	SSOR				PUR	GE	-	WAT	ER MAKE U		
	GPM				1	GPM					OIL				٠ [2400		
				WAT TEL				WATE TEM	P.												GAL. USE		_
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	ž	00.1	DISCHARGE	COND. TEMP.	Ξ	оит	POSITION CAP.	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. LEVEL		COMMEN	тѕ	
30 C			Full	50	73	138		68	87		TSG	1/8	117	_{क्रिड}	107						···		
400	77		Full	50	73	125		54	29		TSG	78	117	81	103							******	
100	49		Full	79.	43	135		2	85		JSG.	78	117	83	105					013	W13	RH	1.3
200	49	<u> </u>	FUI/	50	1/3	/30		26	82		75G	1/8	118	83	105					40	40	100	4
300 400	49		FILL	20	73	138	<u> </u>	67	86		TSG	18	118	83	106								
500		 	Full	50	43	137		197.	84 83	ļ	ISG	1/2	1/18	83	107	ļ	ļ		L				
600		 	FULL	50	43.5	133		66	82		TSG	1/2	118	83	110	 			<u> </u>				
EMAR			VEAL	197	173.3	130		103	D =	<u> </u>	750		118	87	NECHAN		ATURE	17	<u>, </u>	ļ			
		,		, ,,,,,,													1	11/11	and	mo	· nic		
700			141	SIZ	73	1732		165	50		T)"		127	6.7	11.	l							
800			1/2/	1.2	44	11.0		141	10		7711	13	1211	7.7						44	40	0!	
900		-	7 2000	30		3.0	<u> </u>		30		7-17	1/2	12	3,00	177					, , _	7		
000		1-5	1-111		 / / -	100	-		1/2		71.1	-	20	3			1		<u> </u>				
500		 	1/2/1	1-5-2	4.	123		125	10		72	1.7	1/2	10	//	1							
300		+	1 7 7 7		 	1/27		<u> </u>		-5-	700	1	1:2		11/					<u> </u>			
400		1	 	1	1 12 2	 	 	 	 '	-	4-57	20	1 1/2	-					<u> </u>				
EMAR				1	1	-1			به سخم	<u></u>		-	<u> </u>	1		IC'S SIGN	ATURE		<u> </u>	ļ			
-	77.		16 11		1.77	1.56		+			-			, ,		,				2.			
500			Fe 11	50	1/2	130	 	10	80	 	12	1/5	115	80	115	ļ	├—	 	-				
70			122 11	150	1/2	130	-	100	82		75.6	17/8	115	20	115		├	<u> </u>	 	17.5			
180			4	50	1/2	130	-	66	84	-	134	111	115	80	115	 		 		48	12	8.7	,
90			6.1	130	1/2	130	+	100	84	 	736	1-43	118	80		 							
200		_	4/1	50	1//2	125	1	17.6	86	+	732	11/2	118	80	115 <	 	 -	 	 	 			
10			15:11	+0	1/2	125		166	84	 	1	14.16	115	50	110	 	 	 	├──	 			
250			1/2/1	150	47	/2 K		166		_	1	1 //	115	20	110	 	 	-	 	 			
EMA						فيتتناهم	-			-		HUNHIN			feeling	APS SIGN	ATURE	<u> </u>	·	L	TONN.	TO 4	HFT

нт ня	24	1								Al	R COND	HINOIT	G LOG							-	PATE	29-	7
			COOLER				CONDE	NSER		-		COMPR	ESSOR		1		PUR	GE		WATER MAKE UP (READING)			
ľ	РМ					GPM						911			· [2400		
				WAT TED				WATE TEM													GAL. USE	D	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. Level	×	out	DISCHARGE	COND. TEMP.	ž	out	POSITION CAP. INDICATOR	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR	SUCTION PRESSURE	DISCHARGE	OIL	REFR. LEVEL	Iz. y	COMME	NTS C	 : :
300	75		Full	50	4/2	124		75	84		だら	1/8	117	83	102					1/2.	47	75	6
100	44		Full	79	42	126		28	85		TSG	28	//2	83	100					42	47	85	6 7
100	45		Full	79.	42	125		125	84		TSG.	1/8	117	83	780		ļ			42	47	83	6
500	46		Full	50	43	120		36	83 84		756	1/8	1/2	83	90 93	 	 -			42	'9 F'	(3	1:-
300 400	76		FULL	250	42	125		76	87	 	13G	100	1/2	23	92	ļ			 	43	48	81 28	-9
500	46		FULL	50	4/3	121		153	84		75G	1/8	1/2	83	95					73 73	48	77	6
600			Eull	50	73	120		25	93		73G	1/2	//2	83	9.5			-	. 	42	4/5	74	
EMARK																IC.2 SIGN	ATURE	Rich		0-0			
700	1112	-	17-211	50	1 43	1729	-	175	1.2	T=-	777	120	1718	180	615	Г——		10.50	and	1/47	naw		_
800		-	10111	50	42	7		177	?	-	7.77		7/1	87	£, ;			 -	-			····	 -
900			15:11	20	123	12.0		17	- /.		7-11	78	19 5	57	71								
200	, بن		8.63	011	\ ₹			-24	172	_	7 .7	-	110	3.)	.7								
100			1.1.1	-3	93	1-2			ZE		1777	1	1	1							'Z :	٠,٠	
200			1-1	36	43	145		75	177		TIVI	-	1/X	1	1012			 			. ,		
300		-	 	1 , 7	100	1125		177	1/2	1=	77.7	135	1.7	77	100		ļ	 	<u> </u>	<u> </u>		· · · · · · · · · · · · · · · · · · ·	
EMARY		<u> </u>	<u> </u>		1 (, -	سسا				<u> </u>	1		<u> </u>		L	IC'S SIGN	ATURE		<u> </u>	<u> </u>			
			1	1 = 0	1 6	1		+	100		1-37	12.75	1	1 5 6	100				4 .		1		
500		 	2 11	50	1/2	1:3	├ ─	115	84	 	734	13/8	1//5	807	100	 	 -	├	<u> </u>	13 /	1/5		
700		 	16 1	50	172	133	-	152	84		13	1-3/8	1/5	507	105	+	 	 -	 	43	1/1		
800		-	2	100	1/2	125		7.7	84	-	7.56	1 5/6	118	800	108	 	 	+-	 	7	48		
900		+-	13.11	50	1 7/2	124	1	76	84		1-32	1578	17/8	807	108	 	 	1		7:	75	2.5	
2000			211	50	7-	1/23	1	176	182	1	754	1916	1/18	80	105	1	1	1	 	1/3	47	75	- 6
2100			Z11	50		1/25		176	182		134	17/18	1115	10	105	1	1	1	 	434	1/7	15	
5500	401	1	To 11	9/8	1/2	1/25	٠	176	12	4	73		118	70	108	निह्य घट	L		1	4/2<	1/2	75	
EMAR	K S											HOWKIN	GTIME		1. /	///	BRUTAN				TON	AGE PER SH	
											•	I			T 1/2						- 1 '	T0 :==	

									· 	Al	R CONDI			e.=						- 1	DATE /-	30.	40
	GPM		SOL ER				CONDE	NSER				COMPR	ESSOR				PU	GE		WAT	ER MAKE U		
	GPM					GPM .						01	L								2400		
				WAT TEX				WATE													GAL. USE	D	
TIME	SUCTION	REFRIO. TEMP.	REFRIG. LEVEL	ĸ	aut	DISCHARGE	COND. TEMP.	ž	out	POSITION CAP.	BEARING TEMP,	LEVEL	темр.	PRESSURE	LLOTOR AMP S.	SUCTION P RESSURE	DISCHARGE	OIL	REFR. LEVEL		СОММЕ	भाइ	
300			Ful!	49	43	129		67	82		75G	78	117	82	107								
400	78		FULL	50	73	135		يكج	85		TSG	1/8	118	82	108								*****
2100			Full	50	43	133		65	82		75 G	18	118	82	108			<u> </u>		DΒ	WIL	PH	Ŋi
200	48		Ful	50	43	122		45	82		TSG	1/81	1/8	82	107		<u> </u>	<u> </u>		38	34	64	28
300			Full.	50	73 73	/30		65	85		TSG	/×	1/8	82	105			 	<u> </u>				
400			FULL	20	42	135		65	80	 	7.35	1/2/	1/8	82	105					 			
600			Full	30	43	130		67	83		136	1/8	1/8	83	105		 	 		 			
EMARK			<u>U-21.</u>	<u> </u>	1.2.	1799	<u> </u>	10-		<u></u>	1700		1770	0.3	MECHAN	C'S SIGN	ATURE	Rich		1 100			
2700	125		15-71	1	-1-	1::	 		2.7			127	1777	180	105		, , , ,	teca	صمص	1 77 3	ualr		
2 800	11.5		 		127	2 1			475	 		17/	1/10.	70	(1)		 	+	├──	37	18.5		رے
0900					-	7			30			1/1	778	10	100		 	 	 				
000			Pul.	50	VL	100		68	9L		774	10	12/2	16	1110		1						
1100			rs.i	10	4.			LbY.	86		1111	11	111	YU	110		T			<u> </u>			
500			1507	50	1 43			16Y	87		17:01	1/1	127	LYZ	110								
300		ļ	Jun		193		<u> </u>	67	96	ļ	12.4	70	1/2	10	110								
40C	47		Your	1 25	142	1737		57	123	<u> </u>	1/24	100	1/17	1.22	11/2		<u>. </u>						
EMARI								<u> </u>							MECHAN	IC'S SIGN	ANTURE	.0	W:.	· · · /			
1500			Ju 11	150	1/2	140		168	28		754	118	1/5	80	110					132	7:	49	-5
1600			4 1	50	142	14/2		64	84		T5G	118	115	80	110								
1700			15/1	150	1/2			18	84		1554	118	115	80	110	1	ļ						
1800			1-11	1.18	172			68	82		1735	118	115	80	105		<u> </u>	<u>.L</u>					
1900		 	15-1		1/2		-	148	82	 	754	11,1	115	80									
5000		ļ	4 11		142	1/30	 	68	85		734	118	1/5	80	100	 	<u> </u>	-					
3700		┼─-	12/1	_	1/2	130	-	68	1		T.84	144	111		100	 -	 	+	!	ļ			
SSO (1/~ //	1/2	//Z	135	<u> </u>	168	8.1		100	HOKA	d Hát	YO	HE STA	22.5	A TILE	<u> </u>		L	-1		
															1 22						TOHN	TO 12	SHIFT
												1			1// 0							1011	

WRAMC FORT 347

HIT HR	· 4									All	R CONDI	HINOIT	G LOG							;	DATE /-	:0-	
			COOLER				CONDE	NSER			T7''.	COMPRI	ESSOR			 	PUF	GE		WAT	R MAKE UF		
7	PM					GPM .						011			. [2400		
·				WAT				WATE TEA										l '			GAL, USED		_
TIME	SUCTION	REFRIO. TEMP.	REFRIG. Level	ž	out	DISCHARGE	COND. TEMP.		оит	POSITION CAP.	BEARING TEMP.	LEVEL	темр.	PRESSURE	LLOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	OIL. LEVEL	REFR. LEVEL	Tong.	COMMEN	Pres	_ 4_ Æ
30a	45		Full	50	73	122		25	84		75G	1/8	1/2	82	75					92.5	42.5	75	64
400	45		Full.	50	42,5			25	84		TSG	7/8	117	82	95					42.5	77.5	84	70
100	15		F1111	50	1/2	1/22	<u> </u>	اعدا	84		TSG	78	117	82	95					42 -	425	84	68
200	45		Full	79	172	1/23	ļ	75	84		15G	78	112	83	95	<u> </u>	ļ	 		42.5	425	87)	/,
300	45		Full	50	72	121	 	75	87	 	TGG	1/8	117	83	95		<u> </u>			42 =	773	82	1
400	45		Full	50	42 42	120		75	87	 	75G	-7 <u>%</u>	1	83	93	 	 		 	42.5	47.5	29	
500	75		FULL	49	42	119		75	87		TSC	180	1//	83	93		 	+		42.5	47	<u>77.</u> 75	6
EMARK			VE.U.U	1_/_/_	1.74	14.4					17 3(92		1_/		MECHAN	IC'S SIGH	ATURE	1.1		Pin	- نز د - نز د	/3	
200	7		Tru.	109	Vi.	112.0	 	71	XV	1	1924	71	1779	133	7	T	1	7.500	7.1	104	1		
2 800	47		15114	(39	<i>U.</i>	123		-,.	Ç*6.2	1	10 1	27	7/3	(3)						- U:	1	•	
900			T^{r}	ā	1.2	137			1.7		P. 1	7 %	3.2	¥.	7					, i			
1000	45		1/411	144	11/2	120		78	86		17/4	10	11/1	80	90	<u> </u>				4.	69	フィ	7.
1100		ļ	1011	149	45	120		11.	1.86		127	2	1.77	100	192	<u> </u>	<u> </u>	1		L		-/;	
1500	4)	├	1747	1 09	12	170		178	8/2		114	7/1/	1-444	1.0	92	ļ	ļ		 	1		7	
300	1//	 	Mil	179	14/	112		7/2	10	₩	1//	1	1/2/	85	70	<u> </u>	ļ		 	9	7	7 -	2.0
400	(S	<u> </u>	1,00	1	1 (2)	1226			177	ــــــــــــــــــــــــــــــــــــــ	سسا			10:2	MECHA	110,2 5101	NATURE	——	5 1 .	12		`	ري
1500	1/6	r	Fee 1	148	117	120		178	154		121	7/8	113	80	50		т—		<u>又20</u> 0	14/2	:/x	71	 ,
1000		\vdash	6	48	-//-	1/20		125	86	 	136	2 %	1/5	80	30	 	+	+-	4	112	-1/8		
1700		+	1	1/8		120		178	126	+	73	17/8	1/6	1 50	55	 	+	 	 	42	4/4	18	
1800		1	16 11	1/8	1 42			178	182	-	78	7/5	1/5	180	185	1		\top		1/2	1/2		_
1900		1	10/1	1/2	- 4/2	1/20		128	184	1	750	7/8	1115	180	18	1	+	+		1/2	1/2	71	
2000		T	511	1/8	42			128	87	1	750	19/8	1115	80	85	1	T			1/2	17	- 12	
2100			FI		1/2	120	2	17.8	184		754	718		80	18	I			1	1/2	77	78	
5500	44		Ja:	178	1/2	120		178	187		173	11/8	1/18	R	180	MC S SIG	L			1/2	17	75	ج
REMAR	KS											HOWHIT	d THE		HECH	HICTS SIG	HATURE				TONN.	TO BENS	HIFT
i												1			1	7 A					1 7	TO :==	

NIT H										Al	R CONDI	TIONIN	G LOG								OA		1-91
	GPM		COOL ER			GPM	CONDE	NSER		-		COMPR	ESSOR				PUR	GE		W	ATER MAK	E UP (REA	
						.						011	L		·					-	2400 .		
				WAT 783				WATE TEM	ER P.													used	
TIME	SUCTION	REFRIO. TEMP.	REFRIG. Level	<u>z</u>	OUT	DISCHARGE	COND. TEMP.	Z	OUT	POSITION CAP. INDICATOR	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	LLOTOR ALLP S.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. Level		СОМ	MENTS	 -
300	48		Full	49	43	126		64	80		TSG	1/8	117	82	103					ļ			
400			Full	49	43	/30		64	84		77.6	1/2	112	82	103		···						*********
100			Full	48	42	135		66	85		75G	1/8	115	83	103					DB	w13	RH	90
200	48		Full	48	42.5	724		62	79		75 G	18	118	87	100					73	29	70	25
300	48		Full	48	12.5	121		64	78		TSG	18	118	81	102			i		 ~ ~		10	< 5
400			FULL	48	42.5	126		65	29		TSG	18	118	81	102								
500			Full	48	43	130		66	83		75G	18	118	82	104								
60C			Ful!	48	72.5	1/33	<u> </u>	66.	83		TSG.	18	118	82	104								
															MECHANI	C'S SIGN	ATURE	Birk	a. I	m	esae	-	
<i>70</i> 0			1-1	-1	40	17,		PC	40		124	1/1	117	50	104		<u>"</u>			1//	caax	<u> </u>	
800			1-41	4%	1-7/-	130		1.5	10		774	2//	1/1%	80	100					37	21	567	26
900		 	1-11:	43	142	1/30		61	70	<u> </u>	109	7/1	1/15	80	101								
000			7-21		45	1120		100	un		11/1	4.	14.4	40	110								
500			1/22/2	11	(1)-	730		(7)	17	-	114	77	144	137	111			-					
300			 	127	(2	1/-		600	87-		779		17/3	70	1/1/			 	<u> </u>	 			
400		 	 	1.5		lí ·	1,	3.3	3/	 	 	1100	177	20	/		 -	┼	 -	-			
EMAR							<u> </u>	خب با	<u> </u>						MECHAN	IC'S SIGN	ATURE	<u> </u>	6316	<u> </u>	-		
-	d . (_	1211	150	17/3	1777		120	190		170		,					·	44		*****		
<u>50</u>		 	16211	50	1/2			120	50	 	750	1/7	11157		120			 		37	374	٢	2
70			1211	50	1/2	150	-		92	-	-	1/4	1157	80	120	<u> </u>	<u> </u>	╀	<u> </u>	Ŀ			
80			Fi //	00	1/2	150	-	170	92		739	1/6	1/57		1207		 	 	 	 			
90		1	12/1	50	1/2	1775	1	120	90	 	150	445	1/52	80						!			
100		 	127	1.18	1/2		1	120	30	1	175	177	1157	80	115	 		 	 				
10			R 1	1/8	1/2	120	_	70	48	1	75	1/2	1/67		110			 					
550		T	1,	Y	1	1/2 5	-	70	55	-	78	1/2	1150		100			+	 	 			
EMA	RKS										terride.	नर्गभूमाम		***	TYCHAN	C S SIGN	ATURE			L	TO	NH AGE PE	R SHIFT

JNIT HE	7.									Al	R CONDI	HINOIT	G LOG							-	DAT		
			COOLER		1		CONDE	NSER				COMPRI	ESSOR		·····		PUR	GE		WA		UP (READIN	
ſ	GPM					GPM						011			. [· · · ·	IER MARE	UP INCAME	ıw
				WAT	EA			WAT				 -			i						2490		_
	[75	IP.			TEX	·P.												GAL. U	SED	
ТІМЕ	SUCTION	REFRIO. TEMP.	REFRIG. Level	×	out	DISCHARGE	COND. TEMP.	<u>z</u>	оит	POSITION CAP. INDICATOR	BEARING Temp.	LEVEL	TEMP.	PRESSURE	MOTOR AMPS.	SUCTION P RESSURE	DISCHARGE	OIL	REFR. LEVEL	ym,	COMP	ENTS C	; <u> </u>
300	45		Full	49	72	120		75	84		7\$G	7/8	11.7	83	90					72.5	47	F3	69
400	75		Eu//	48	42	135	ļ	76	84		TŽČ	<i>%</i>	117	83	90					42.5	47	82	67
200	45		Full	49	72	123		36	85		75G	3/8	1/2	83	90			<u> </u>		72	47	80	6
200			Full	49	43	/23		76	84	 	TSG	1/8	1/2	83	90					72 72	47	<u> 29</u>	65
8			Full	49	42	127		26	84		TEG	7/8	117	83	90					72.	76	76 77	6
500			Full	49	72	124		76	84		TSG	1/8	117	83	88				·	42	46	77	6/
600		<u> </u>	Full	49	42	120		1.75	84	}	TSG	1/8	117	92	88					42	46	84	6
EMARK															MECHANI	IC'S SIGH	ATURE 7	Tuck		1 20	asu		
3700			/	1/	17-	11.1			13/		//	12	27.2	2.27	5.7		· · · ·	1.00	- na	1//	and,		
0 800			1/41/1	77	4/	121		180	85		174	21	1/)	80	100					42	46	Q,-	6.0
9000		ļ	Mul	47	141	17,57	ļ	YC.	12)	 	774	22	1// 5	YC	(60					42-	40	8)	7.
1000			17=(1)	14	Pr	737		1/4	1/2		17:0	34	1//1	50	00			 	ļ	7/		- 1	
1500			- , , , , , , , , , , , , , , , , , , ,	127	41-	151		4/-	先		4	77.	1//-	72	100			<u> </u>	 			3	
1300		 	7- 11	44	1/2	1/5	-	43	17	-	17.7	1	14/1	-	7.017			 		=			•
1400			1	17	1-	173	-	 	1	1	1	50	 	-	17.7		 	 		15-		<u>``</u>	
TEMARI							4			4	Laboration.		<u> </u>		MECHAN	IC'S SIGN	ATURE	بحث ا	7.52	1 1000			. ,
1500	71	T	To.	1 < 2	1	1,30		178	186		154	7/1	1115	150	10-	Г	1	, , , , , , , , , , , , , , , , , , , 	_	1/2	-,		
1600			4.7	52	142	120		172	146		733	1114	115	80	105			 		1/2	77	د ہے	
1700	4.1		K.	-0	112	125		126	81		19.	714	111-	80	104					11/2	- #	30.0	
1800			KII	118		125		76	84	J	754	7/8	115	180	105	Г		T		1/2	1/7	80	6
1900		1	K. 11	48	112	125		76	84		17.84	7/1	115	10	160					1/2	17	80	43
5000		↓ —	6"	1/8	1./2			76	82	 	TX	241	115	80	100					-77	-16	80	70
3100		┿	KII	198	1/6	1,25		76	82		17.85	7/2	115	100	95	ļ	ļ			4//	114	60	70
5500	OI (/ · /		1~ /	- 1/ Y	<u>'/z</u>	1/2	<u> </u>	76	82		17.55	Z/V	1/15	80	40	12 S SIGN	1		L	1//2	1/4	80	70
[1			1 //	/					101	HAGEPER	HIFT
1												1			1 17	2					l l	': F8 .:=	

WRAMC PONH 367

#Z #1	Vor	k l								Al	R COND	HINDIT	G LOG								OA.	ik 2 -14-	.94
	. t		COOLER				CONDE	NSER			-	COMPR	ESSOR				PUR	GÉ		W/		E UP (READ	
	РМ					GPM						ΦI	L		. [
Ī				WAT TES				WATE				141									2400 _ GAL. I	SED	
TIME	suction	REFRIG. TEMP.	REFRIG. LEVEL	3	our	DISCHARGE	COND. TEMP.	¥	our	POSITION CAP.	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	HOTOR AMPs.	SUCTION PRESSURE	DISCHARGE	OIL, LEVEL	REFR. Level			MENTS	
30d	80		211	50	43	124		69	83		7\$c	78	11-4	γo	पा				-				
90	40		54	50	43	11.8		66	80		78C	1/8	116	80	88								
100 200	48		211	44-	43	122		69	X 2		78 C	1/8	116	\$0 \$7	No.			<u> </u>		08	MB	RU	00
ioc	48		和	48.	425			63	87		756	7/8	116	58	₽ \$			 		31	2.	69	23
Ιŏŏ	48		क्रिए	48-		121		67	82		780	1/4	1116	80	88			-					
8	48		72 M	48	477	125		66	82		786	48	गिंड	80	88			_					
0	48		124	48	43.	123		.GG	X.		186	1/8	115	80	88								
MARK	3						_	•							MECHANI	C'S SIGN	ATURE	، نیا	nel				
700	18		Rell.	48	1/2	130		166	82		734	118	118	80	100			1	Yucy	3~	30	55-	23
100	48		R11	118	1/2	130		66	92		73Q	118	118	80	100				 	-		33	34.0
900	48	<u> </u>	Bul	48	112	130		06	84		130	1/8	115	80	90								
200		 	FI	48	43	130		68	89	<u> </u>	75G	1/8	115		10								
500 100			21/	50	1/3	125		66	90	-	7.5	118	115	80	95			ļ					
500			2/1	50	1/2	125		25	72	 	756	1//8	115	50	98			 	ļ		•		
400		 	1211	50	42	135	-	10	88	[783	1/5		80	100.			┼					
MARI						17.54.0			-		17.23.	1///	17.4		III (HYA)	C'S SIGN	ATURE	ــــــــــــــــــــــــــــــــــــــ	ــــــــــــــــــــــــــــــــــــــ	L			
5 0C	48	_	-17011	149	143	1/3/		167	83	 	1		1		100		,	+					
20C		 	FUI	419	43	1/35	 	76	98	 	756	1/8	1115	80	100		<u> </u>	 					
700		1	EUN	49	7.3	140	-	70	89	-	756	1/2		82	102		-	 	├	.43	40	44	2.
800			Full	199	43	137		68	81	1	136	1/8	1116	81	100		-	1					
400			Ful	49	42	733	1	65	19	 	730	1/8	1115	81	91		 	 					<u> </u>
000			Fui	419	42	129		43	60	J	756	1/8	113	80	96			$\overline{}$		 			
100		1	FAI	44	42	120		10	19		756	1/8	1116	80	177					· · · · ·			
500	46	┸	FULL	49	172	1117	1	6.4	74		756	110	1116	131	94	ट इ ग्रह				T			
EMAR												RUKNIN	G TIME		MECHAN			~			TO	NN AGE PER	SHIFT
												l l			i .		UT	0	•		1	12 TO 12	

MT H	と	1								Al	R COND	TIONIN	G LOG							BA1	2-14-9
			COL ER			-	CONDE	NSER				COMPR	ESSÓR				PUR	ÇE.			E UP (READING)
ſ	3PM					GPH						01	L							2400 _	
				WAT				WATE TEM													ISED
TIME	sucrios.	REFING. TEMP.	REFING. LEVEL	3	OUT	DISCHARGE	COND. TEMP.	×	our	POSITION CAP. INDICATOR	DEARING. TEMP,	LEVEL	TEMP.	PRESSURE	LOTOR AMPs.	SUCTION: PRESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL.	сом	MENTS
žõd	45		₩"	48	43	123		75	83		785	478	114	87	90			-	-	42 48	80 E
90	45		15 M.	48	43	130		74	87		TSG	7/8	114	82	90					42 48	78 6
100	45	<u>.</u>	1 NI	47.	423	123		74	6.5		186	417	114	87	90					42 43	78 6
200	95	·	177	47.8	450	177		34	۲3		186	48	11th	6.7	7,0					42 47	76
ZOC	45		1211	47.8	43	193		33	89		782	3/8	NA	45	95					स्त्र क्ष	85 7
400	45		1211	47.5	43	17.9		4.2	- Ao		78G	+44	114	35	90					42 41	83 6
200	45		1	42.5	43		ļ	+3	00		750	418	144	1 1 2	90			ــــــــــــــــــــــــــــــــــــــ		42 47	X 25 E
SO ARK	18		1711	43.4	1 43	1170	<u> </u>	1.73	8.2	<u> </u>	150	1-1/7	114	83	99	C'S SIGH	L			42 47	80
					4			y						. •	MECHAN	C-2 210H	ATURE	√ىيى	iel I	in	
100	46		61	48	1/2	125		74	72		734	718	115	75	56			-	<u> </u>	42 48	80
100	.16		KIL	1/8	42	120	1	71	82		7.85	7/8	115	85	100		·			1/2 1/8	80
900	16		12/	198	42	120		74	82		734	7/8	118	85	100					1/2 1/8	75
000	-14		Full	1/8-	4/2	120		74	458		1758	7/8	115	100	100			1		1/2 1/82	75
100			1/2/	48	1/2	125		76	82		1.96	218	115	800	100			T :		42 118	25
500			1211	50	1/4	120		74	84		7.54	7/8	115	FU	105	1	I	T :		1/2 1/6	25
340			KII	50	44	125	1	71/	84		735	7/8	115	80	105					1/2 48	85
400		<u> </u>	F-11	50	1/27	120		72.	PZ	<u> </u>	1239	7/8	115	80	110					12 119	85
	4														MECHA	C'S SIGN	ATURE				
500	44		-EU11	150	143	125		176	83	-	736	7/8	1/4	82	187	1	1	 	i —	12 48	75
600			EUU	50	43	120		174	32		1756	7/8	115	82	110		1	1-		42 4811	76 6
700	44		FULL	130	43	121		14	82	T	136	7/8	LIS	82	110		 	 		4.2 18	16 0
800	44		Full	50	43	121		73	63		136	7/8	115	82	111			 		42 48	73 6
900			Full	144	43	120		76	3-3		736	7/0	11.5	22	110	1	 	 		47 47	75 6
000			Ful	49	43	121		76	33		136	7/8	115	82	109			1	1	42 41	76 6
100			541	47	143	120		1.79	62		TSG	7/0	115	82	105		1	1	1	72 47	30 6
500			וונייו	44	77	120		176	83		15	7/0	115	182	29				 	1.42 47	80 6
EMAR	KS											HONAIN	G TIME	- CITTLE	MECHA	ोट र घटा	NATURE				NHAGE PER SHIFT
											•	1			ľ	/	10				't #8 !

HIT HI	" / Va	irk							•	Á	R CONDI	HINDIT	G LOG								DATE	-15-	9.4
	. 1		∞0LEŘ				CONDE	HSER				COMPR	SSOR				PUR	GE		WAT	ER MAKE U		
	GP M				ľ	GPW.			•			. 01	<u>,</u>		٠						2400		
	*.	·		WAT:	ER IP.			WATE TEM													GAL, USE	o	
TIME	suctions	REFRICE. TEMP:	REFRIG. LEVEL	Z.	out	DISCHARGE	COND. TEMP.	z	оит	POSITION CAP.	DEARBHE. TEMP.	LEVEL	TEMP.	PRESSURE.	LOTOR. AMPS.	SUCTION PRESSURE	DISCHABGE	OIL LEVEL	REFR. LEVEL	-	сомме	NTS	
300			1/V	48 -	425	134		70	28		78C	1/8	116	¥1	93		·						
100	49		711	475	43-	130		66	84 X T		75G 78G	738	116	18	90								
300			7	464	43.	153		15 7	82		756		116	81	23			 		310	SAR C	RUL 81%	23
300	49		40	4.6	.41	118		1.5	79		750	78	116	81	83						<u>~_∆</u> c	1 /8	-d- 1
400	49		7.1	4.7	42,	178		10 F	81		186	1/8	116	81	XS								
8	49		***	437	45	12.2	<u> </u>	65	84		126	1/8	115	18.	90	ļ		ļ					
600 EMARK	3	ــــــــــــــــــــــــــــــــــــــ	11/1/	170	99	0 6	L	بهم	80	<u></u>	106	1.78	176	1/	S 7	IC'S SIGN	ATURE		<u> </u>	<u> </u>			<u>.</u>
700	1100	+	 	1	1 100	1					1-2-				l	 			<u>~ h</u>	dha			
100	73		FUIL	Ha	72.5			69.5	79	- X-	T5/2	1/2	177	ला	85		<u> </u>			00	v/3	R.H	01
7900			1500		43	134	- /	70	454	/ `	155	177	11/2	87	1 44			 	 	3 70	3 10	5290	<i>7</i> .3
000			RIL	50	1/2	125		48	82		75	1/8	1/57	20	3/5			 		 			
100			RIL	504	1/2	1.30		40	84		734	118.	415	20	105			·					
500		+	FILL	150	74	135		46	YY		73G	17/19	115	20	110			·					
300	1/8		RII	50	42	/352	 	46	84	 	739	1/8	115	80	110	<u> </u>	<u> </u>						
400	N 74	<u></u>	1011	19.0	192	135		46	186	<u> </u>	73.	1/8	1/8	ريع	110	103 5161	ATURE		L	ــــــــــــــــــــــــــــــــــــــ			
4	1 20	+	1000	+	£ 21.1	1.3	<u> </u>	+					·		17%	गट इ.स			<u>. P</u>	elet I	nas		
500	48	+-	FUII	50	73	1/38		197	85		756		1/18	83	115	-					U		
	7 7 8		Full	50	1 73	1/3.5		66	85		156		1//8	82	1//3	-	 	-	ļ	100		27.11	
	1 48	-	Full	50	42.5		-	64	30	 	120	1	1//8	82	1//3	 		┼	 		W13	RH	D
	48		Full	50	172.	129	+	65	87	+	173G		11/2	87	111	+	-			52	41	36	2
200		1	Full	50		1/33	1	166	84	1	175G		1//8	82	106	+-	 	 	 				
	98		Full	199	142	1/26			80		TSG	1/8	118	87	1/00	1	 	+	 	 			
2200	348		Full	50	143	725		165	180				118	187	107	1	1	T	 	sio			
REMAR	K S								*			HUNNIN	GTIME		HECHA	गट इ प्रदा	NATURE	4		·	TORN	AGE PER :	SHIFT
												I			1 -	ALL	las.	1 "	ma	inin	"	T8 :=	

	9	EZ									All	R COND										10ATE -	15-9	7.4
				COLER			GPM	CONDE	NSER				COMPR	ESSOR				PUR	GE .		WATE	R MAKE UP		_
	фы					ľ	GPM .						01			-						2400		
•		Т	•		WATE TEM				WATE													GAL. USED		_
TIME	***************************************	SUCTION	REFRIG. TEMP.	REFRG. LEVEL	Ξ.	ouT	DISCHARGE	COND. TEMP.	Ξ	OUT	POSITION CAP.	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	HOTOR AMPS.	SUCTION PRESSURE	DISCHARGE	OIL OIL	REFR. LEVEL		COMMENT	18	
300		5		41/	44-	43	122		7.4	ŹΣ		78 F		US	82	पुष					41.5		¥ 9	61
400	1-9	-5 IS		 	43	43-	1/5		75 75	χο XO		78G	718	115	87	95	 				41.5			71,
100		3	_	1211	$\frac{3}{4}$	43.	113		75	रेठ		150	374	115	85	48			 		41.5 41.5	41	\$ 7	<u>اط</u> (ق
200		र्डा		1/11	48-	42	113		72	79		730	#8	1/5	92	उँ			 		4/3	येचे	8 3	(5)
400	1 4	3		7017	48	42.6	123		33	80		756	718	115	87	87					43	47	<u> 22, </u>	رج-
500		13		デニ	48	43	119		+5	# 8		750	→ <i>t</i> {	715	(X)	93					42	4g-	81	6
600		45		7.	47	97	1116	<u> </u>	1-1-7	44		5.70	YYE	LUS	85	95					41.9	42	1 .8	ھ
EMAR														4		MECHAN	C'S SIGN	ATURE	. wh	el L	-			
200		प्रम	7	F.11	44	472	/21	• /	23	75	/-	TY	7/8	779	87	96					42-	47	77	60
2 100		75	-1-	575	49.5	华	1119	<u> </u>	75	80		150	- 7 //	1/14	83	97					42	78.5		_5
79 oc		12		Fell.	50	44	120		747	37		17.30	13/6	 //,≥	80	100		—	-		412	48.		-59
1100		16		21	50	14	120		74			73	7/4	1//5	80	105	 	 	 		1/2	1/2	50	6
200		12		211	00	33	125		194	32	-	12	37	115	20	110	-	 	-	 	47	49	80	6
300		76		ZII	50	14	125		77	24	1	754	3/4	113	10	110	 		 		42	75	80	$-\frac{2}{c}$
400	3 3	16		RI	60	44	120		74	84		736	3/9	115	80	110	T				1/2	119	75-	- 2
EMAR	iKS .									./		4 .	-				ाट इ इंद	SAUTA		R	Set :	may		
60	<u>a</u> 4	1/2		Full	52	44	1/25		75	84		75%	-XU	1/1	82	13,20		1	1	- / \	72	4815	83	
60				Full	51	43	125		7.5	34	1	156	144	115	82	125	1		1-		43	49	82	-7
70		14		Full	50	143	125		74	87	1	136	34	1115	82	124	1	1	1	_	73	44	80	- 4
180	d 4	14		Full	50	73	/23		77	87	Ţ	1756	1.74	1115	82	/2.3	1		1		43	49	79	
190		15		Full	50	42,5	1/20	1	7.5	84		1756	1 7/2	1115	183	112	1		1		93	48	-48	
200	Ø 2	16		FULL	50	43	121		125	87		156	34	1115	83	109				1.	43.5	48.5	77	-7
510				Fall		43	120		24	82		TSG		115.		109					43	48	76	e
550		6	L	Full	50	143	1/20	<u> 1:</u>	124	82	ل	1756	77	115	182	1/08					43,5	48.5	85	
AEMA	KK 2												MUNNIN	G TIME		MECHA	2 8 2	LIZ	W.			TONN A	E PER SI	HIFT

7	2%	RIL	L		- •					Al	R COND	HIONIN	G FOC								BATI 3	- 7-	94
	dPM		COOLER			GPM	COND	NSER				COMPR	SSOR				PUR	GE .		WA	TER MAKE	UP (READI	
								<u></u>				01	L		•					ĺ	2400		
				WAT TE				TEM														ED	
TIME	SUCTION	REFRIG. TEMP.	REFING. LEVEL	ĸ	our	DISCHARGE	COND. TEMP.	×	our	POSITION CAP.	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	HOTOR AMPS.	SUCTION PRESSURE	DISCHARGE	LEVEL OIL	REFR. LEVEL		СОИМ		
300	4/1		ارد=ا	49,9	42	128		14	78	┯	T.S.C.	₩g.	116	80	96					DB 233	35°	RH 79%	PP
400			150%.	49,8	42	150		64	78		T.S.G.	16	166	80	95			-		37-	53	177-	29
100			Full	49,7	42	120		64	78		T.S.6.	18	117	80	96			_					
200		<u> </u>	أمارستا	49,7	42	, 20		104	78		w 4	18	117	70	90					 			
BOC		 	15011	49	42	124		16	79		7.5,6.	14	116	80	95			1					
400	47	 	FULL	49	ur.	25	<u> </u>	46	76		T.5.6.	14	116	Ro	94			T					
500			FUN	48,5	42	122		115	78	<u> </u>	40	146	116	80	93								
CHAR	<u> </u>		FUN	44,5	42	120	<u> </u>	64	28	<u> </u>	T.S.C.	118	116	80	92				-	1			
								•							MECHAN	IC'S SIGH	ATURE	1	-				
705	48		Full	49	42	1/29	1	166	84	T	756	18	712	81	93		e wen						
000			Full	49	42	129		64	83		TSG	1/2	7/2	\$7	98	_	 	_					
	48		Full	50	42	126		66	80		756	78	117	87	100					D13	4.413	10.7	~ ~
000		 	Full	49	172	1/25		64	80		TSG	18	11.7	80	100		i	1		40	42	80	DP 40
100			FUIL	50	142	135	1	66	84		75G	18	1.117	87	1//3					 	7.4	60	7.0
500			Full	50	191.5	1/32		64	84		756	18	118	80	125					 			
300	47		Full	15/	72.5		1	68	20		75G	18	718	83	125					 			
400	46	ــــــــــــــــــــــــــــــــــــــ	Full	15/	172	1740		67	85	J	TSC	18	1/18	80	130								
										,	,				MECHAN	IC'S SIGN	ATURE	W.I		na			
500			于光区	6.9	43	1199		166	द्धप		786	195	1720	181	734		7	usee	uck 1	rear	ass		
60			$\perp M$	1 53	48	1/5/	1	66	90	T.	128Z	147	120		142			 		 			
70	2 9		17.1	6.7					40		786	1 72	120	181	123	 	 	 	 	78	1.14	-R14	- 75
180	46		121	1 5	1 43 .	1/5	1	66	-89		780	1/2	120	1 8	148		-	 		70		7/2	
90	3 46		8	51	9 43			1.6	89		1788	147	1153	X	1/48	 	 	 	 	70	57	45	4
90			1	50	9 42	1/48	1	1,6	88	1	1280	148	1/20	T 🛠 🕽	1/33	1	 	 	 	 			
510			120	1.50	142	139		165	RS		1766	1 4x	1/18	1 8/	727	<u> </u>		 	 	 			
550	3 4 (0	コネロ	50	42	- 13	<u> </u>	164	R'3		175 C	178	1178	- KT		1		_	 	 	<u> </u>		
EMAP	× S										77.7	HUNNIK	GTIME	-	HECHA	ि इ अंदर	ATURE			1	TON	AGE PER	HIST
												I			ľ		lich	.0 \				₹8,‡=	
		: 367										<u></u>					$\frac{\sqrt{r}}{r}$		m			;ö.;=	Ξ

77	-	4 %	SEX				- i				Al.	R CONDI	1 T 1 4 4									3	-7-	94
	तंत्रम			COOLER			GPM	CONDE	NSER				COMPR	SSOR				PUR	ĢĒ		WATE	MAKEUP	READIN	
	GPH.						GPM						Ò									2400		
•					WA1				WATE													GAL. USED	·	
TIME	a contract of the contract of	suction	REFRICA TEMP.	REFING. LEVEL	X	OUT	DISCHARGE	COND. TEMP.	ĸ	our	POSITION CAP.	BEARING. TEMP.	LEVEL.	TEMP.	PRESSURE	MOTOR:	SUCTION P RESSURE	DISCHARGE	U.EVEL.	REFR. Level	5	COMMENT		
30		3		FUN	49	42	108		48	74		T. S. C.	748	113	8Z	57 S					42	48	5 76	R 65
400		5		FUM.	49	42	107		48	74		11540	766	113	82	84					42		75	64
170			<u> </u>	FUU	49,5	43	107	<u> </u>	69	75	<u> </u>	T.S.G.	745	114	97	85					43		74	63.
220		10		FULL	49,5	113	107	ļ	69	75	ļ	U- 4	748	114	82	76			<u> </u>	$ldsymbol{ldsymbol{eta}}$	4/3	4815	74	(2
30 40		4		FUN	44	42	100		68	74		15.6,	74	1.13	28	83					43	48	79	67
30				Full	48,3	1/2	107		67	74	ļ	TasaG,	748	114	32	24	ļ	ļ		<u> </u>	45		78	66
So.				ESVI	48.5	42	107	 	10 8	74		75.60	7/8	114	82	8.5		 	<u> </u>		42	18	77	45
EMAI	RKS			1.001	1 8,5	, , _	1/0/	<u> </u>	<u> </u>			12.67		114	82	NECHAN	C'S SIGN	ATURE		<u> </u>	42	418	76	64
	<u>-1</u>				1	1											/4	illa	11:11	•				
	2 7			Full.	79		1/05		166.	29	ļ	122C	1	115	.22	85		7	1		42.5	48	75	- 6
	얼성			Full	49	42	1/02		167	24		1 <u>72</u> 6-	12	115	82	90					42		73	_ 6
	<u>a</u> 7,	_		Full	148.5	73	1/08		بقق	25		756-	18	115	82	90			<u> </u>		14/	46	72	6
000				FULL	17	+ 74	14.5	-	22	78		TSG	-02	145	82	100			ļ		41	46	80	6
	3 %			Full	150	1.7/	130		37	80	-	TSG	-	115	¥2.	1/3	ļ		ļ		72	48	80	
	3 7			Full	50	42	1/20		153	82		128°	-35	145	82	1/3		 	<u> - </u>		47.5	48	78	6
	3 4			Full	37	172	125		153	83		TSG	77	115	82	115	 	ļ	├ ──	<u> </u>	42	49	76	6
20	7		L	1.20	13/		1/47	-I	173	103	<u></u>	1/30	- ZX	115	8/	125	C'8 51G1	A APPLIED	ــــــــــــــــــــــــــــــــــــــ	ــــــــــــــــــــــــــــــــــــــ	41	48	75	6
_	-			137	-	* **		-	+						1	1			Rich	and	May 415	-1.		
60		42-		171			130		1 +3	1 X T	<u> </u>	75G		1/5	क्ष	130			L		415	49.5	73	. 6
60		42	 	17.1	52				73	13		ZSC		1/3	- 20	135	1				42	50	71	4
176		49.		14.			13		33			786	-2/2			135					42+	30	チリ	6
180		412		14	50		4 13	1	7.3			785	44	1113	18	1/28	1	i	L		43	51	7.5	
90		41		130				}	1 75	5.3	!	1786	178	1115	1 7-7	13 8	1				42	50.		66
200		47	<u> </u>	767	1-8		11077	.—	37	82	·	178C		11/2	81	13,	4				41.5	50		36
द्रीव				TXI			7/3		+2			175G				1/23					41	49	5	+50
\$ 2C		42	<u> </u>	_ T	15	1 9	Sliad	1	7.2	1 81	<u></u>	7SG	7/8		1.81	1//5	ाट <u>इ</u> घटा				41.5	49,5	5 7	136
													LOUNIN	O TIME		MECHA			(,	(TONHA	EPERS	HIFT
i													1	_		1		U	hel	hai	٠.	" <u>!</u>	::=	

71	YOR	-K								All	R CONDI	TIONIN	G LOG						-	25	-7-9	J.
			COOLER			<u> </u>	CONDE	NSER			******	COMPR	SSOR			*******	PUR	GE		WATER MAKE		
	3PM					GPM						OIL										
Ī				TAW				WATE												2400 GAL. US	ED	
TIME	SUCTION	REFRIG. TEMP.	REFING. Level	¥	OUT	DISCHARGE	COND. TEMP.	×	out	POSITION CAP. INDICATOR	BEARING TEMP.	LEVEL	темр.	PRESSURE	LIGTOR ALMPS.	SUCTION PRESSURE	DISCHARGE	LEVEL OIL	REFR. LEVEL	соми	ENT'S	
300	44		1201	50	42,5	120		72	70	-	Tsu.	748	1/2	82	99					41 48	75	60
90	યપ		FUVI.	50	42,5	119		72	80		T.5.6.	748	11.2	82	99			— <u> </u>		42 48	<u> </u>	4
100	44		FUN	50	42,5	119		72	70		Tisile	74	1.12	72	105					42 48	30	- (
200	44	,	FUN	50	42	120		73	82		~ ~	74	113	72	104					42 48	79	
200	49		1-06	50	42	120		73	82		T. 5.6.	748	1114	82	104					42 48	77	- (
400	44		FULL	4915	42	119		73	31		n L	74	113	82	103					415 48	77	
200	44		FUIL	49.5	42	119		73	ZI		T.5.6.	14	113	82	102					41.8 48	76	
600			FUL	49,5	42	120		7.7	ठ /		ч и	318	112	82	104					42 48	72	
EM ARK	(S					**		•						·	MECHANI	C. S SIGN	AJUR#		_	V 40		
700	75	1	Full	51	143	120	 	179	84		TSG	1	115	82	105	~	1	7		17.6		
800			FULL	50.5	42	125		150	84	 	75%	1/8	1//2	22	1/5		<u> </u>			42 49	71	
900			Full	57	42.5	124		77	84	 	756	1/2	1//2	82						42 49	80_	
000		1	Full	30.3	42.5	121		79	83		756	16	115	82	1//3					142 49	_27 _	
100	44		Full	50	14.3	123		24	84		73G	1/2	17.3	82	1/2				\vdash		76	
200			Full	50.5	4/2.	125		154	83	-	156	1	11/2	82	120					42 49 42 49	25	
300	44	1	Full	50.5	1/2	12.	1	74	84	 	TSG	1/0	115	82	1,78						73	
400			F411	50	142.	125		77	34		KC	1/2	17/5	82	117			 	-	42 49	72	
MARI						-				***************************************			17.5	1000		C'S SIGN	MTURE	Ril	' /			
500	4.3	1	FUII	50	142	1725	1	74	83	 	T36	7/8	116	163	 			uch	بارية	margin		
600		 	Full	50	42	1146		143	83	 	736	7/8	113	82	117				<u> </u>	42 47	79	
700			FULL	50	42	120	 	76	04	+-	736	7/8	112	182	116		 -	├	<u> </u>	. 42 48	10	
800		1	FULL	30	47_	_	-	74	23		736	7/1	_		116	<u> </u>	 	<u> </u>		42 47	12	
900		+	FUI!	30	147	123	-	++7-					112	82	117		<u> </u>		L	42 48	76	4
300		+	FULL	144	+	120	-	1 4 4	19	┼	TSC	7/	112	82	111					42 45	77	- 6
100			Fui	49	112 112			77	37		736	7/3	113	3.5	107	<u> </u>		<u> </u>		42 41	18	Ģ
		+	GU	145						-	T36_	7/8	114	82	105					42 41	11	6
5500	× 2 - 43		11 71	137	42	118		173	82		1736	1/8	1113	82	101	C 5 316 A	L	L	1	42 47	79	69

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_	Ale	-/	DOLER	KIL.			CONDE			-		COMPR		-						DATE 4-18-9
	GPM		DOCER			GPM	CONDE	nsex.								·	PUR	GE		WATER MAKE UP (READING)
								·				011	L 							2400
				WAT TED				WATE												GAL. USED
1146	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	¥	our	DISCHARGE	COND. TEMP.	3	оит	POSITION CAP. INDICATOR	BEARING TEMP.	TEAET	TEMP.	PRESSURE	HOTOR AMPS.	SUCTION PRESSURE	DISCHARGE	OIL	REFA. LEVEL	COMMENTS
50(47		FUII	48	72	/25		68	81		756	1/3	116	81	91			-	-	DB WB RH DD
oc	47		Full.	43.	42	125		67	8!		736	1/0	116	81	91					62 59 31 39
00			FUL!	43	4 2	124			80		75G	1/8	116	81	90					
200 200		-	FULL	4 :	42	123			g o		75%	113	113	80	89			 	<u> </u>	
400			Full	47	4 2	121		67	80		73G	1/8	116	80	34	-			_	
500			FUIT	4.7	42	120		68	19		136	1/6	117	80	3.5					
S			FUII	47	42	119		7	19		750	1./0	117	80	84					
EMAR										L	.				MECHAN	IC'S SIGN	ATURE	VIC	,	
700		=	1711	177	44	1799	١	72.	30		774		11.5	10	90					153 Up 53 35
80		+=	Zu	100	77	144	-	78	*	<u> </u>	14:41	188	144	170	40					001.000
2900	1	1 🗀	Faul	1 1/2	122	1/2	-	50	30	-	144	15	1454	 %%	40	 	 			
100		15	Fuil	1 44	1 720	120	-	70	20	-	1770	14	1995-	18	92		 		 	·
20		10	IGUI	100	100	1/27		70	XL.		1	17%	17/2	14/	100	 		 		-
300		7 -	177	UG	41	1735	=	50	8.5		754	Vg	1775	180	703	 	 			
40	¥ 4	11 -	IFW	1 99	1 42	135		70	185		174	100	170	THO.	115				1	
EMAI															MECHAN	IC'S SIGN	MTURE	3	lest	
50			- +01			1 34		67	97.		1736	115	1116	1901	120				1	1
60			150			1/32	IX.	66	192		1756	1/2	111	20	122					
70			Ev					1665		<u></u>	734	1-45	1115	90		 	<u> </u>	-		DB WA NH D
180			Full	<u> </u>		127		67	63		1770	1/5	+ <i>115</i> -	1 20		-		 	<u> </u>	72 56 33% 4
200			125					30	1 63	 	183	11/2	1 1/2	31	1/02	 	 	+	├	·
210			1 701				+	149	4,2	 	1 20%	1/0	1 1/2	31	1109	1	 	+	├	
220			FUI					60	51		1757	719	11/	5		1-	 	1	 	
EMA											-	RUNHIN	G THE		MECHA	र्गाट-इ.चटा	ATURE	-		TONHAGE PER SHIFT
											٠.	2	144	צק	ĺ			1300	4	rey TONN AGE PER SHIFT

-4	2/2-		DOL ER	RK			CONDE					TIONIN			-					1-14-9
	GPM		DOLER			PH	CONDE	12EH				COMPR					PUR	GE.		WATER MAKE UP (READING)
1												011	.		'	1				2400
		•		TEM				WATE TEM												GAL. USED
TIME	suction	REFRIG. TEMP.	REFRIG. LEVEL	¥	out	DISCHARGE	COND. TEMP.	ž	out	POSITION CAP.	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	LLOTOR ALMPS.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. LEVEL	COMMENTS
300			FUI	49	42	119		7 4	80		TS 6	7/8	114	¥ 2	<i>3</i> 7		·			
400			FULL:	44	45	119		74	80		73G	7/8	(14	82	87					
100		-	FUIL	49.	42	170		7.5	4		736	4/8	114	7 2	97					
200			FULL	49	42	112		7.5	8		73G	7/0	113	8	84					
30C	4 4		FUI!	49	42.	117		77	80		75G	1/8	113	9 1	85					
500			FUII	47	42	118		73	30		730	7/8	1.4	8 2	83			 		
	44		GUI	47	42-	118		7.4	40		134	7/8	17-4-	82	87	-		 		
MARI	1		LIVI	<u> </u>		, -					17.70			1		C'S SIGH	ATURE			<u> </u>
4	1 777		الداءا	778	UL	-7715		177	102		i		1.7		-			10		•
700	1 44		Eur	34	135	446		71	30		12/	74	144	12	_			ļ		
7900		-	recit	(ह	1/27	132	-	3	186	-	14/8	43	 1// / -	3/	100				├	<u> </u>
2000		-	Pail	133	43	17277	-	45	9/2		1794	25	 ///-	TYZ	20			-		
100		-	ZU	1,50	Vo	110	-	1	10	-	11)4	1	17/3	80	700	5		 		
200	UU		1412	UA	46	120		7	(ZD	-	1779	1/	1775	100	1000	-		 	_	
300			1411		41	120		171	85		1779	17/	111)	10	1903				—	
400			Ju	1 49	147	12		128	187	1 —	17.4	71	115	1 777	111				4	
EMAR	K2 .								• ,	٠	7				MECHAN	ICS SIGN	ATURE	32	cur	77 _
60			F . F . L	59	442	127	/	22	94	\v	756	119	1.114	82	120			100		
60		IY	For	50	+ 42	1133	X	13	36	L. /\ -	150	1.7/3	1.115	182	123	T		1	1//	
70			Fu					78	954		756	11/3	1115	84	124	L				
180	0 4/4		FJ.	1 49.5	411-	130	1	76	64		750	7/3	115	152	1.118	1	1			
90	a \/		Fy.	19				75.4			1780	17/6	1115	17%	1777			1	1	†
500	d 44	1	FJ.		142	125		75	15	-	156	73	117	52	110				1	1
510			F-1		1/2	1/2		1.25	9/	1	1.75%	7/5	177	191	10	k			L	
<u> 225</u>		<u> </u>	1 5011	177	1/2	1/2/	1	17 4	£ 52		174		115	95	10	गेट इ.घटा गेट इ.घटा				
REMAI	RK S											HOWNIN	G TIME		1.	NICES SIGI	HATURE	2	b-	TONNAGE PER SHIP
						•						1	0	44	4		- 7	io a	ي - سريد	m "!!!

HITH		-4/	-61	ARK;	ہے ہے					A	R COND	TIONIN	G LOG								DATE/	1-14	3-4
	. /		COOL ER		1		CONDE	SER			-	COMPRI	ESSOR		-		PUR	GE .	\neg	WAT	ER MAKE U		
	GPM					SPM		-				òil			. [
ŀ	1/1			WAT	KR			WATE	,									1			2400		_
				710			}	TEM												i	GAL. USE	·	
TIME	suction	REFRIG. TEMP.	REFRIG. LEVEL	¥	out	DISCHARGE	COND. TEMP.	¥	OUT	POSITION CAP.	BEARING. TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR AMPS.	SUCTION PRESSURE	DISCHARGE	ר בּאבּר סור	REFR. LEVEL		COMMEN	ताइ	
300	16	38		49	43	3	90	75	80		1 45	3	129	2 •	80	2 .,	0	FAI	1/4	42	47	88	6
400	16	3.8	1	79	43	5	39	25	80		145	3	129	20	79	2 "	٥		- 11	42	47	\$7	6
100	16	3.8	 	48	43	3	25	7.5	8		174	3	139	20	79	_ h	_r		- 11	42	47	06	6
300	16	3.3	 	7.6	43	515	7.1 88	74	41		144	3	129	20	79		FF	R.		42	47	87	4
300 400		37	├ -	48	4-	7.50	87	7.5	14		1 44		130	20	77	-				42	. 47	81_	- 6
500		131	 	77	4	3	85	73	7 8		1 43	1-2-	129	20	76	-		<u> </u>		42	46	87	6
600		135	 	47	4		07	7 4	777		1 44		127		75		<u> </u>			42	46	86	2
EMARI		197		l-Li	14		<u> </u>		[4./]		11.17			20		C'S SIGN	ATURE	150		42	46	84	6
700	16	130	17	150	127_	1	an	70	77	=	146	1.7	1724	20	7.5	70	10	24	20	47	46	80	7.7
700		37		Uq	112	3	4D	70	7.5	-	746	13	724	20	7	שליו	10	1414	78	7/5	46-		60
2909	16	139		124	143	B	40	70	70	1	797	7	130	20.	7.5	10	10	East	25	1/2	1/2	30	台
000	1/6	100		40	UGG	3	97	120	100		1747	1.1	130	20	75	70	10	Fill	11	22	30	80	6
100		135	11.	99	40	5	90	70	SD.)	14		130	220	75		70	PUG	M	Un	48	80	61
200		137		179	140	L	100	72	10	1	11/6	13	130	120	91	0	70	reu	11	120	09	30	61
309		13/	 /	150	14	1.5	90	1.2%	8.7		176	13	130	50	100	0	70	FUL	11	131	49		71
400		1 30	1/_	175	TAY	4_1	1 40		IXI.		1746	حكما	730	120	MECHAN	C'S SIGN	IZO	17-U	JVI.	(2)	99	90	Z
-	1 77	1 3-	2 711	1	4.72	1 2 5		1-3-2	472		1 1015	-	1			-		_ 1/	the	2			
500	_	1 39	1	51.	1 43	∖≎ ∽	91	79	973	1	1/77	31	130	20.5		-0	F	F_	PVACE		47.5	90	
700		1 3		34	44	1 2.3	91.5		99	<u> </u>	1147	1-3:	130	121	10.5		<u> </u>	<u> </u>		· 42	79.5	59	
180			1	50		3.2		73	56		1746	137	130	131	100	 	ļ	-	 	4/2_	49	89	
900		n 3'-	, 1 , , ,	50			40	27.9	35	ļ	1772	311	120		98			 		42	48.5		- 2
200		1 36		30				76	84	 	170		100	305	100		 		 	42	44,		
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220	a <i>11</i>	135	7 7 "	116	1 4/3	1//9			82		144		100			 	 -	 	 	1 22	- 4		
EMA	uc s				-			-	de office.	-		ножий	d Tipe	-	MECHA	ि इ अटा	ATURE	<u> </u>		<u> </u>	TONN	AGE PER S	
											•	1 .	2-11	L # a	r		B	my	_		'3	TO :=	

NET HE	F	10-	1 YOR	14		•				All	R COND	TIONIN	G LOG								DATE	1-19-9	î 4
			COLER				CONDE	NSER		~		COMPR	ESSOR				PU	RGE		WA	ER MAKE U		
	GPM					GPM			29			01									2400		_
		•		WAT TED				WAT:												į	GAL. USE	b <u> </u>	-
ų	SUCTION.	REFRIG. Temp.	REFRIG. LEVEL		1	DISCHARGE	COND. TEMP.		E	POSITION CAP.	BEARING. TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. LEVEL				
TIME	ğ	2 2	25	¥	ē.	ā	8 #	E	PUO	ĕ ≅	2 =	3	F		3 2	3.5	<u> </u>	9 7	2.5		COMME	NTS	
300	47		F-V11	44	42	127		67	85		T56	1/8	115	91	100		Ŀ			DΒ	WB	RH	DΤ
400	47		FUII.	41	42	129		68	86		T56	1/8	116	81	101					64	60	5 E	43
100	47	·	FUII	78.	45	136		68	85		736	1/5	117	81	160								
2200	47		FULL	48	42	110		61	23		730	10	118	18 (199		<u> </u>						
300	48		Full	49	42	129		67	185		736	16	116	8.1	100	ļ	<u> </u>	+	<u> </u>	ļ			
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CO O			1-46 [17.5	1730		14.	100	<u> </u>	1700	1.10	1100	18		C'S SIGN	ATURE		<u>r</u>	<u> </u>			
											-	-			ل نبا	<u> </u>	,	NTO	2				
2700			1311	49	147	1/25			90		774	17	1///	TX2	100	ļ	<u> </u>		├ ──	100	64	10 E	20_
2 100		_	1944	149	14/	1		72	133	1=	143	144	<i>\</i>	+ 44	100	-			↓				
0900		-	12011	1 20	14)	* {-}/		132	137		14/3	1 374°	1///	1 66	HYK		 	-					
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200		=	1211	177	rl <i>727</i>	1/34		1 47	1 3/		14-77	1 11/4	\ '///	+*/	1/4/	-	 		 				
1300		ᆮ	1001	10	172h	1/20	=	70	18	+=	1451	1//2	1//	1 8	1/6		_		-	 			
1400		=	Limit	1	En	-++ **	1 -	70	00		1/3	1778	1775	T 85	1/40	1	1	1	1				
TEMAR					141	1/-7-16	مدسسمك	· Landard .	-		-	-		00	SECHX.	र्गट इ इ इ	NATURE		27.	ng			
1600	48	1	Full	152	142	1740		168	7 8 7	+	1756	i Va	1775	183	128	1	7	+	7-62				
160		-	Fill	123	1/3	1745		70	 89	 	1786	1 1/2	1//5	1 83	1/2/3	1	1	+	1 -6	1.03	W13	RH	Di
170		 	FULL	123	133			1 50	90	+	1/8%	1 /2	1/30	1 83		1	+	-	1	84	62	43	-111
180		1	Full	53	144		_	70	90	1	17.95	1 1/2	1120	83	145	1		-t	1	1 "	17.1		
190		1	Full	33	143	1/43		120	1 🕉	,	756	1 1/2	1720	1 83	1790	1	+	+	+	 			
200	_	-	Full	152	1 13	1795		20	89		756	18	1720	83	130		T	1-	1	1			
210	-		Full	52	1/22			169	8.8	2	756		1/20	9-2		1	1						
220			Full	50	2143	1/90		69	8.8		175G	199	1/20	183	1/25	1	1		1				
REMAI												HUNHII	IG TIME		несна	AIC'S SIG	HATURE	mal	٠.		TON	TO 1	HIFT.

MI I M	A/C	2 -	ORK						•	Ali	R CONDI	TIONIN	G LOG							LI - 19-94
			COL'ER				CONDE	NSER				COMPR	ESSOR				PUR	GE		WATER MAKE UP (READING)
	GPM					GPM						011	<u>.</u>							2490
Ī		·		WAT TE				WATE TEM												GAL. USED
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	ĸ	OUT	DISCHARGE	COND. TEMP.	ž	out	POSITION CAP.	BEARING. TEMP.	LEVEL	TEMP.	PRESSURE	LLOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. LEVEL	COMMENTS
3 00	44		FULL	5 6	42	120		75	¥3		T36	7/8	115	82	99	-		-		
5	44		Fu!	30	42	126		75	83		156	7/8	(15	8 Z	100					
100	44		FULL	50	42	119		74	82		75G	7/8	115	82	100					
300	44	,	F-Ul1	50	42	112		7-5	73		TSG	7/8	114	82	97					
<u> 300</u>	44		FULL	50	42	112	<u> </u>	76	83		TSG	7/3	114	82	77	├—				
400			FU!	50	42	120	 	175-	83	<u> </u>	75C	7/9	114	82	98	 		 		
<u>500</u>			FULL	50	42	120		77	82	<u> </u>	130	7/0	114	82	98		 	<u> </u>	 	
EMARI	(5		12011	150	170	1120	<u> </u>		0.2	I	11.75	10	ш,	100		IC'S SIGN	ATURE		<u> </u>	
	1		برري	1	1-0-			-	***					<u> </u>	ļ.,,,,	,		1/1	<u> </u>	
70C		-	132	1 5	135	120	-	75	37		734	4	111	180	100	<u> </u>		├ ─		
900 900			1320		1 35	177	-	149	7		1/2	150	177	133	199			 		
000		-	7-00	1 3/5	105	1/26	1	135	とう -		1557	20	 //// -	145	19/	 		 	 	
100			rul	150	1 47	1725		157	0	=	130	7/1	1777	100	1727	1	 		_	
200	1 99		Pull	100	42	130		178	25		774	71	127	77	12	1				
300	124		1/4/		42	. 130)	1377	90	-	1734	12	175	180	140					
400			16.11	1.500	142	130		1 XO	90	_	124	74	110	X		2		L		
EMAR	KS 1 1				•						, /				MECHA	HIC'S SIGN	ANTURE		8/21/	in the second
500	743		Full	53	142	1/3 8	1	76	86		13G	1/8	1/12	12/	140	T	T	 	1	
600	43		Full	53	142	1/35		176	86		75G	1/8	1//7	8/	1743	T		1	1	[
70			Full	.53.	142%	3/32		1.75	85		756	7/2	1/17	81	144					
80	044		Full	53,5	5 42	1/40		76	86	1	TSG	1/8	1//7	82	1745					
90	973		Full	52	41.5			25	85		KG	1/8	1//7	81	790					<u> </u>
200			FULL		143	1/29		25	85		75G	1/8	1/7	83	1/2.5					
	0 44	<u> </u>	Fuci		147	1/30		176	86		TSG		1//7	183	125	1				
550		ــــــــــــــــــــــــــــــــــــــ	Full	151	142	126	ل	1.25	183		LTSG	1/2	1//7	182	1/35					
EMAI	CK S											HUNNIN	G TIME		MECHA	भीट र घट		raio		TONNAGE PER SHIF

NET H	Ale			NA.	E AL		CONDE		· 	الم		TICHIH	CZ45	-							DAT	1-19	
ŀ	GPM .		OOL ER			PM	CONDE	4SER			3	di				-	PUR	GE .		AV.	TER MAKE	UP (READIN	(C)
.		·		WAT TED				WAT													2400 _ GAL. U	SED	_
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	×	OUT	DISCHARGE	COND. TEMP.	×	оит	POSITION CAP.	BEARING. TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR AMPS.	SUCTION PRESSURE	DISCHARGE	CEVEL.	REFR. LEVEL		СОМ	ENTS	
300	16	3:	1 "	30	44	6	92'	17	87		144	3	129	20	86	 		FUI	3/4	72	48	17	29
400	16	31	1.4	50	44	6	1	80	X 3		144	3	130	20	36				11	42	48	68	69
100	16	3.4	1 .1	50.	44	6	9]	80	8 8		144	3	(30	20	85	0	FF	li.	11	42	48	87	68
3300	ile	38	-	50	44	5 15	50	30	87		145	3	158	20	85			- 11	- 11	42	48	87	6
7500	16	38+		50	44	6	92	30	87		145	3	128	20	88			LI.	14	42	48	48	7 (
1400	16	35.6	1	51	7 4	انک	90	00	87		144	3	120	2	83	<u> </u>	ļ	11 .	.1	42	48	95	65
1200		385	1	51	4 4	ب	92	30	7 8		144	3	128	21	87	 			17-	42	43	87	60
€Q O	<u> </u>	383	L	51	44	6	92	80	87		144		120	21	3 7	C'S SIGN	ATURE	لـــــا	, 11	42	78	85	65
																		110					
2700		38	4	17	44	6	92	10	89		1116	13.	120	20	90	30		1/	\mathcal{U}	43	49	80	63
7 100		38		147	44	1	97	10	XY,		706	13	1473	120	90	12	70	-44	1/	93	99	XO.	61
0900		37	+	4/2	44	1	9E	80	84		1/46	3-	132 B	1-24	1412	20	138	1//		43	¥77.	- YD	61
1100		79		170	133	19	47	1 2 K	30	-	100		1194.	40	100	1-2	197	 // 	-	445	77	50	6
1200		135	 	1 7 X	17/11	4	3/	Ti V	46		10%		H-77	40	1797×	 	140	11.	4,	43	572	80	4
1300		30	17	1.4%	177	6	25	2/2	40		17/72	13	 / 11/	50	194	 8 	 5%	<i> </i>	- //-	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ 	07)	B	-6
1400		138	1	1 77	776	10	73		40	┝┋	1700	1-1	1/27	26	1727	 1-1	15%	177	17	727	رجيب	100	6
MARI		1,14,11			17	-	-			·	-	-			MECHA	र्गेट हैं अंदर	MUNE	1.00	700	W/2		XU.	_0
1600	1//-	172	10	154	1 47	7 =	40	1-37	84		17-7	1	1738	127	1-,;	+ -	150	+ - 4	regi				
1600		34	6	37	45.5	1672	32	 55 -	84	├	1/5/	15	1/34	 40 /-	1//3	12	70	Eull	12.1	14.5	ييي_	82	9
1700		134		54		 	95	1 32	87	 	1/5/	13	1/33	13	1//3	12	1	Full	3/1	44	52	80 80	
1800		34	13	57	7/6	1 5	95	1 26	84	1	1/57	2	1/2 -	137	113	1-	17	Full	37	44.5	<u> </u>		
1400		134	10	33	44.5	1 5	75	1.5%	1 84	 	1/23	1 3	1737	127	1//3	10	 - 	Full		177.5	<u>525</u> 51	79	
200		34	0	53	144.5	1 2	135	76	83	1	1/53	12	1134	127	17/3	T .	1	Full	 X/-	43.5	<u>-5/</u>	78° 86	
210	77	34	0	53	74.5	1.2.	95	126	27		V53	12	1/37	121	1773	10	62	15.11	374	43.5	51	85	
550	7 /7	134	1 1/2	53	1.74	16.5	.94	1.76	84		1/53	2	739	127	113	12	137	Full	Fill	143	3/	87	
REMAR	S 3											HOWHIT	SHIL D		MECHA	मार्ग र घंट	Nan	,			TO	HNAGE PER	
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r Wi	坩	- I ALC	u . 15.		/4					, i	R COND	ITIONIN	c Loc		nger endig	right right	or mile	<u> </u>	. 100		DATE 5=10
	GPM -		COOLER			- 1" 12 9000	CONDE				1. 187	COMPR	ESSOR J.	*****	i		PUR			VATER A	AKE UP (READING)
ŀ	1.845	1	·	* 4	***	*	-	36 7 - 64		2 24	200	01	Light	.4345	1.7	p.,100.3	144	٠, ١			***
Ī				WAT		#		A WATE			1, 11		A 19.							. 240	0
-		ļ	l i			a).	ميند پيندورو		<u>-</u>								1			GA	L. USED
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Ì	. 5	d.	ایها			2 3		ا ، ب		POSITION C	0 1.72	20 T	تشكن ت	2		- 22	22				
.	Ĕ	Ě	REFRIG. LEVEL			28 E	35	ī	_	POSITION INDICATOR	5 5	.편 :	13 C anta	35	8 4	. E 23	¥ .	=	2 1		
٤	Sucrio	REFRIO.	22	ĭ	50	88	CO. (0)	Z The same	170	5 8	BEARBIO.			PRESSUR	LIOTOR	SUCTION P RESSURE	DISCHARG	OIL.	REFR. LEVEL	-	OMMENTS S.
d	UL		FUI	Us	41	~		_	7412		40.45.48	70: 1021	· Late	237		******		0.2	- 3		OMMENTS
ŏ	· UN		TOTAL.	· 142	7/	17.75	**	7 7	3	1	759	110.	33	90	*22 - (364	aller.					MERCENT'S
ŏ	UA	-	raw	47.	क्षाः	1723-		755	χ'n		1351	 	36	40		-					(Magazine):
Ö	1~ U X	=	HM	UY.	91	125	2	70	XI.		172	115	-10	87							****
000	- 4% 4%	는	EM	WX	#	1221		· 72-	X7		774	1/2	280-	K.C							AMPLE ST
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0	1/2	=	1201	US	3/	1/27	-	72	-63-	-	1448	 	86	80			ļ		ļ		
RK	etter.	500	,			ib.c.	into			•				-00	МЕСНАН	C'E EIGH	ATURE	- 5	2/2	 	
Ø	7 4 9		Full	46	7/	123		78	85		135	1/4	120	80	85			- 1	yesi	ry	
ŏ	50		FUII	46	42	125		78	8%		75G	1/4	120	82	83		 		1-2	DB 111	<u> </u>
9		-	FUL	48	173	120	LAME A	22	83		156	1/4	120	87	95			<u> </u>	-	62 5	
5			FULL	78	1 7 / -	14/2	57.7	73	82		1283	77	130	8/	20						
ŏ		+	Full	48	43	1/30		24	82		156	1-77	1320	 8/-	20	ļ	<u> </u>				
O	199		Full	48	72	176		72	82	 	180			80	90		 	<u> </u>	 		
٥		1	Full	149	142	115		72	80		750	1/2	120	80	92	 		 	 		
RI	K.)														HECHAN	C'S SIGN	NTURE	0	1		
) C			1. 2011		47	178		112	Y 2		786	17/6	1114	1 70	88			44	(a)	pio	
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00		-	101	49	41			73	84	ļ	180	115	1116	80	.87	1				61	1 3
O(1-16		42-			13	- X 5	-	75G	174		80	<u>ک</u> لا۔ ا	1					
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INIT H	#41	4/4								Al.	R CONDI	TIONIN	G LOG							5-10-94
	GPM		XOL ER			GPM	CONDE	SER				COMPR	ESSOR				PUR	GE		WATER MAKE UP (READING)
	GPE				ľ	GPM			- 1			01	L	1		1				
1		141		WAT	KR			WATE			<u> </u>									2400
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i	- 1		1	1	l	ĺ	1	ł	İ						- 1					
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		Í				y		i		POSITION CAP									- 1	
1	1	₫.	ر ي			DISCHARGE		- 1		POSITION C	BEARING TEMP.			PRESSURE	~	88	DISCHARG			
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEYEL		Ē	ធ្ល	COND.		5	동	8 4	LEVEL	TEMP	2	MOTOR	SUCTION PRESSURI	ğ	OIL	REFR. LEVEL	
=	. ₹	2 =	22	ž	8	5	8 =	3	ಠ	ĕ ≅		_ =	٦	2	33	3 2	ä	OIL	R LE	COMMENTS
3 00	16	.77	7	50	72	Ь	9U.	71	<i>K</i> 0	_	146	7	130	20	100	,	70	3/1	Vi	
400	16	27	1 .	70	42	6	44	-2/	X	_	146	3	130	20	100	,	70	3/4	w	63 1082-5
100	1/2	77	1	50	VZ.	6	46	71	3)	146	3	130	20	9)	1	70	3/	1/2	00 00000
200	1/2	37	1	10	44	6	47	33	8)		146	3	100	20	95	1	20	3/4	1/5	
300	16	36	-/-	30	47	12	34	7)	31	=	146	7	130	20	4)	1,	70	7/	1/	
100	117	3/2	 	30	7/	12	40		4		140	7	120	70	40	',	30	3/5		
50	16	36	-	30	U?	6	C1 1	. 21	*		15.77		1 3 7	7 7	40		4-		 	
ARI	. 5				1						t T				MECHÁN	C'S SIGN	ATURE	<u> </u>		Theying
700	16.5	36		99	42	3	90	80	86		195	3	1728	20	28	/	46	3/4	18	-AF6,07/
800		36		50	42	5	90	79	85		195	3	128	21	90	- 7	46	3/4	1/8	
2900		32	 /, _	50	472	حكيا	20	79	86		145	3	128	21	95		52	1/2	1/8	
100		35	 / -	50	41.5	کِکِ	9/15	77	86		145		130	a!	95		58	12	18	
200		36	1-4-	50	73	23	9/	80	86	-	1775		123	31	35	3_	69	1/2	1/2	
300		36	7	50	43	5.2	41	80	86		1743		130	31	95	- 2 -	83	12	 	
400		126		50	42	4	87_	27	84		797	3	1/30	21	90	7	70	1/2	1/2	
EMAR	K'S															C'S SIGN	MIURE	O'F	27	
600		136		5	42	1 4	X 7	76	83		1/49	40	130	20	9,5	/ #	33	1/2	/ara	207
600	1,2	36		51	43	5.5		76	. २.5		149	4 4	130	20	नंडे	111	73	73	37	· · · · · · · · · · · · · · · · · · ·
700		2 0		51	142	2.5		- LG	25		1/49	4"		90	9.3	177	73	775	78	
800		36	17	5/	42	5.3		10		<u> </u>	741	4	1,20	20	.99	1 **	31	75	1/8	
900		36		50	413	5	90	78	87	├	148	4.	130	30	89	1 #	7/	1/2	74	· · · · · · · · · · · · · · · · · · ·
210		36	1 7 7	1 2 4	45	12	7.7 7.7	78	93		142	1-7	130	20	89	2 *	72	7/2	1/8	
5500		36	170	44		وتناكمك		42		-	146	4	1730		80		35	122	1 1/2	
TAMES						-			Contraction of the last of the	CHARGE T	****	HUNNIN	C TIME			टिइ घेटा		-	L-Z-F	TONN AGE PER SHIF
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UNITH	# 1	PAIC								Al	R CONDI	TIONIN	C LOG								DATE	-10-
			WOLER				CONDE	SER				COMPR	ESSOR				PUR	GE		WATER	AKE UP (REA	
	GPM					GPM						01	1.							***************************************	ARE UP (REAL	UNG
							—т	<u> </u>			L		-		1			1		2400		
		'	1	WATE		1	l	WAT					i i					1				
			Ī				Ì													GAL	USED	
-				•		Ì				C. C.			,									
			ا ن	Ì		DISCHARGE				POSITION C	ġ			JRE		2 E	RGE					
TIME	SUCTION	REFRIO. TEMP.	REFRIG. LEVEL	_	5	Š	COND.	_	TU0	POSITION	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR	SUCTION PRESSURE	DISCHARG	OIL	REFR. LEVEL			
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300 400	112	3 <i>6</i> 0		- 52-	د <i>خا</i> نا د منا	بج	90		40		175	3	150	20	40	11	65	CF	1/2	13. 4		0 6
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200	147	76		14	->	-;	10		40		142	7	130	20	20	7	105	71	1/2	4 4	7 0	
7800	76	36	1	51	- 5		40		10		137	7	120	7.0	20	-Z-	12/1	22	14		1/2 /	
1400	112	36		57)	ψ,	-1	ab		40	_	1718	3	7.30	20	an	4	101	3%	1/2		6 1	
1600	1/4	36		50	45	V	7.8		40)	127	7	10	20	75	1	6)	4	12		2 1	
DAR!		36		177	U).	4	45		90	<u> </u>	100	7	130	21	75	7	6)	97	115	<i>E</i> 2		
								•							MECHANI	C'S SIGN	ATURE		127	al ne		<u>~</u>
370Ç	_	137		51	43	4.5	88		87		157	3	230	20	80	7	68	1/8	36	142/1/47	1 0=	
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1100		35	- /,	52	43	55	915		90	 	158	_3_	130	20	90	5	68	Full	3/8	42 49		- 6
1200		36		52	4/2 5	5.5	9/15		.70 89	ļ	158	سكيس	1/30	20	-20-	5	68	Full	78	192 98	ে ৪১	
1300	+	36	-/	53	713	5.5	91.5		87		158	-3-	/30	20	20	_5_	98	F_{III}	**	42 49		6
1400		136	7	53	4,3	4.5	88		88		1760		130	30	95	4	68	Eu/	3/8	42 98		6
TEMAR							In Class		100	·	ICIOL		1700	20		C'S SIGN	ATURE	EUI.	72	192 98	<u>8 78</u>	
1500	17'	1 21	1. 76	618	42	4.5	8.7		1 922		1							<u> </u>	Ylan	zio		
1600		37	+	<u>डिस्ट</u> े	43	4.7	37		¥\$	<u> </u>	160	4"	730 730		95	4 *	69	Till	1/2	12 48		6
1700		31	10	403	43	3	3,0		× 8		160	4"		70	99	4*	69	111	=40	43 4		
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200		37	17"	52	43	53	ने		88		159	4"	130	30	90	9 *	68	1211	314		11 27	
210	_	36	3/4	515		4	87		¥ 5		75 x	44	130	20	96	5"	(28	44	314	43+ 4		
2200		31	3/4	SI	143	3.	83	-	82	_	1/38		130	26		200	(-8)	本// 本//	3/4		X - X	
REMAR										-		न्द्रभूमाम	TIME		T 4	23 5161	ATURE	141	174		TONH AGE PE	
												i					dih			['	13 TO 8 _ 8 TO 4 _	4 SHIP F

#/	prk	1								Al	R COND	TIONIN	G LOG								DATE		
- 1	•		COOL ER			Madian 1	CONDE	NSER				COMPR	ESSOR				PUR	GE			TER MAKE U	-/5-9	_
[GPM					GPM						011	L								THE PARKET	T INCAME	•
		·		WAT TEX				WAT				-									GAL. USE		_
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	ĸ	out	DISCHARGE	COND. TEMP.	ĭ	our	POSITION CAP.	BEARING TEMP.	LEYEL	TEMP.	PRESSURE	HOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. LEVEL	6.	СОНИЕ		·
300	45		1)رشم	52	UL	150		8 Z.	9-4		Buscle	ruvi	120	80	150			-		PB 28°	<u>WB</u>	RA	91
400	45		F.181	5レ	4.6	150		87	_78		BISIL.	Toil	no	30	150			 		7.X =	75°	470%	2
2100	45		00	52.	41	147		82	916		13,5.6	12 11	100	80	150			_					
200	45	<u> </u>	1.011	50	41	1.19		32	46		13156.		10	Χo	1 50								_
300	ાં મ	ļ	1011	5112	40	147		32	مي.پ		BAGE		1-20	8.0	146								
480	114	 	1.001	41.5	40	149		82	12 C		13/561		no	80	144								
200	74		1 44 7	5,	4/-5	152		8!	97		17/2	1011	100	80	150								
DO ARV			Ti	2-	41.5	11:0	L	31	97		BS6.	1-00	no	30	150								
								•							MECHAN	C'S SIGN	ATURE.	マメ シ				~	
3700			GUI I	31	41.5	150		81	97		BSC	tul!	117	80	151	-	<i></i>		_				
0 800			FULL	53	42	150		82	99		1356	FUI	117	80	150			 		78	73	93	70
2900		 	FULL	53	43	130		81	98		B36	FULL	116	81	149			 		-	13	(2	
1000		<u> </u>	CULI	53	43	150		32	97		Bso	PULL	115	81	149								
1100			FUI (54	44	131	-	84.	98	-	1330	Ful	117	81	149								
1500		+	FULL	24	4215	131		84	98		B.SG	FULL	119	81	150								
1400		+		53	42	150		84	98		1356	RUI!	119	81	150								
EMARI		ــــــــــــــــــــــــــــــــــــــ	17011	123	172	150		67	98	<u></u>	B36	FULL	121	81	149								
															MECHAN	IC'S SIGN	ATURE	17	0				
	76	-	Full	54	73	157		86	198		BSG	Full	119	87	150			1	<u> </u>	 			—
	76		Full	57	73	150		85	98		RSG	Full	/22	80	150					·Di3	WB	RH	Ŋ
	76		Full	53	172	149		84	76		IBSG	Full	121	80	145					83	72	30	- 2
	76	1	Full	52	172	139		80	72		BSG	Full	118	82	115					<u> </u>		~~	
	47	 	Full	51	142	134		178	90		BSG	Full	118					 					
<u>2000</u>		ــــــــــــــــــــــــــــــــــــــ	ļ.,	ļ	<u> </u>	<u> </u>		L	L									1	 	Check	ina Bl	1- 54	-
	42	_	FULL	152	425			78	72		BSG	Eull	118	83	110					1000	10g 101	19.5 7	
2200	47		FUI	152.5	143	1/32	ــــــــــــــــــــــــــــــــــــــ	1.28	192		ßsc	Full	1118	183	1//0					 			
TEMAR	* >											ноници	SINE		MECHAN	टिंड घटम	ATURE	11	1		TONN	AGE PÉR SH	HFT

#2	- Voi	た								Al	R CONDI	TIONIN	e roe							6-15-94
	GPM		COOLER				CONDE	NSER				COMPR	SSOR				PUR	GE		WATER MAKE UP (READING)
	GPM				i	GPM			- 1			OI	.							
•				WAT TE				WATE									!			GAL. USED
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEYEL	æ	out	DISCHARGE	COND. TEMP.	Ξ	оот	POSITION CAP.	DEARING TEMP.	LEVEL	темР.	PRESSURE	MOTOR AMPS.	SUCTION PRESSURE	DISCHARGE	OIL OIL	REFR. Level	COMMENTS
300	ur		500	45	42	146		77	4.4		Title	22	117	30	150					
400	U, w		17 1	45	42	146		27	97		Tisch	-1/6	117	730	150					
100				65.	42	1115		X 6	93,		T,566.	728	11/1	81	150					
200	ルレ	,	1.77	4 , 4,	ا دار	145		16	74		22 01	1.8	116	31	150			—		
BOC			r i		11.7	144		75.	! 5		TX16	-,-,-3	116	アッシー	147					
400			1 , 1	17.6	11,1	144	'	55,6	7%		13.6	.18	114	80	144					
250	43		11	7	4 노	144		35	14		1,606,	710	11 5	21	150					
R			11:1		111	1.1		100	0.4		Ticiti	- 5	113	81	150					
								•							MECHAN	C, S SICH	ATURE		7	
	4/3		FULL	34	Y3	146		86	93		136	7/0	775	81	148	126.5	70	7		
<u> 700</u>			FULL	54	42.5	147		84	93		T36	7/8	115	81	149			<u> </u>		
	42		EVII	54	43	177		86	93		TSG	7/8	116	81	148					
	43		FULL .	54.5	4/3	178		27	93		75C	7/8	1/7	81	147					
100		ļ	1411	22	44	150	-	88	94		TSO	7/8	118	8/	148					
200		 	GUI	55 54	42	150		18	94		736	7/8	118	81	150					
300	42	!	FULL	33	417	146	 	8-7 8-7	73		T56	1/8	117	8/	146			ļ		
EMAR	KS		1-011	23	1717	146	L	1 2/	73	<u> </u>	756	7/8	118	18/	176	IC'S SIGN		<u> </u>		
			, , , , , , , , , , , , , , , , , , , 	-	+ 112	T 2:									<u> </u>			.11	10	
	144	ļ	Full	55	73	178		85	199			1/9	119	18/	150					
	77	-	FULL	54	73	150		186	196	<u> </u>	75G	1/2	1/19	18/	150					
	73	 	Full	53	142	145		83	77		1726	1	117	180	777					
	944		Full	158	142	1/35		87	90	ļ	TSG	3/8		82	113	l		L		
	77	 	EUIL.	151	122	/30	├	82	87	1	TSG	3/8	117	87	108					
<u>590</u>		 	15.77	122	145 -	100	 	1 W.E.	107	├	1	-	 	-		L				Clecking Bldg 54 -
210. 220		+	Full	52				1 3 7		_	15G		1/17	82	144					J J
CCD.		٠	11 411	برح	1.7	1/35	<u> </u>	187	190		1750		117	82	14.3	23 5161			<u></u>	TONNAGE PER SHIFT

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# 4	ca	rr				******					Al	R COND									6-15-94
ļ	GPM			COOL EI			GPH .	CONDE	NSER				COMPR	ESSOR				PUS	GE		WATER MAKE UP (READING)
													01	ı.							2490
						TER EMP.	-		WAT				i								GAL. USED
TIME	SUCTION		REFRIG. TEMP.	REFRIG. Level	Z	our	DISCHARGE	COND. TEMP.		ouT	POSITION CAP.	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	HOTOR AMPS.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. LEVEL	COMMENTS
300	16,1	-	57	Ų.	5.5	.14.5	19	16.5	'4 Y	16		197	मुद	130	.2-2	129					
9	16,		710	1.	50,	114.	1 7 %	1 3, 2,	XX	110		147	4"	130	.5.5	1-29			 		
100	1:5.		39	1	54		10	10%	21	17 3		147	- 4	130	26	170					
5500	ال	12	-311	<u></u>	154,		10	121	7.2	115		141	4.	1 70	17	150					
400	1/		19.5		1 31	19.1			33.7	11		147		11.9	22	125			1.		
		\dashv	10 p. 15.	<u> </u>	70	-13	+ 3.4		-بنيا	74		1 4 7	u u	11.9	1.5	100					
<u>800</u>		-,	1				+		37	10		148	4	1460	5.1	1:00					
ARK		•1				1	نسنا	سنسل	سمحضبا	1		14.0	-1	14%		120		<u> </u>			
																MECHAN	IC'S SIGN	ATURE	any		
700		-	37		5.5	45	10	103	87	95	L	148	4	130	22	124		1	11		T
3 800			37		122	45	10	103	87	95		149	4	130	22.	125		 	 		
2900			37	 	کِکِا	45	10	103	87	95		149	4	130	22	125			1		
	16,		38		36	43	10	103	57	96		149	4	130	22	129					
200	16		38	 -/- -		113	4/	1.04	88	77		179		130	22	131					
300			37	 / -	34	45	1//	105	88	97	 	149	14-	130	22	131			Ŀ		
400			36.5	1 /-	54	75	10	103	99	97	 	148	4	130	22	1/23					
EMARI	7 / .			<u> </u>		1/1/2	179	1/03	1.09	17/	<u></u>	1/48	4	130	27.	125	C'S SIGN	<u> </u>		L	
	1 //	_ 1	5.5	,	1	A711:	-					-							1/7	0	
150C		-	$\frac{37}{37}$	+		5144	1/0	103	90	95	<u> </u>	1/97	3	1/3/	22	126					
1700		_	36.5	+ 4	55,	되고?	1/0	1/03	90	196		1472	1-3-	1/3-2	22	1/27					·
1800			36	+-	57	73	1/8	1/03	90	75	 	1/97	3	1/30	22	125					
1900		\leftarrow	36	++	153			1/00	86	94		1/47	_3_	1/30	22	115				L	
2000		4	20	1-	12.	~ 7/-5	1-8	178	84	92	 	145	-3	1/29	121	1//2					
2100		, 	37	17		5 72.	حا ج	120	82	100	 	1700	-	17277	-	1 77 -	<u> </u>	<u> </u>	<u> </u>		Checking Bldg 54 +
5500		-	36	17	123	42		100		-		1799	7	1/3 7		1//3	 	ļ	-		J J
REMAR					-1-1-1	- (6)		-200	10)	176	J	1777	HUNNIN	1737	22	1//7	टिंड घटा	1.100			L
													1			""	110.2 MGH	TATURE (.00	sia	TONN AGE PER SHIFT
																1		K	Y Y /	2	1 78 4

## <i>L</i>		rhier	1							Al	R CONDI	TIONIN	G LOG								DATE	15-9	41.
			∞ 0LER				CONDE	NSER				COMPR	ESSOR		***		PUR	GE		WAT	ER MAKE U		
[CPM				[GPM						01	L		.								_
.		T		WAT				WAT			\vdash		i								2400		
- 1				TED		ŀ	- [TES					i .								GAL. USE		
		1	1			1															U-4. 03E	. ——	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	ĸ	OUT	DISCHARGE	COND.	z	our	POSITION CAP.	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	LLOTOR AMPS.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. LEVEL	Темр	СОММЕН	ITS	re
300	16"	7390	1-1	4.7	पुचाह	10.18	71		भट ने -		147		1.52	12	130	2 W	64	-vи	5/4	<u>S</u>	<u> R</u>	2	_
400	115	3.7		20	114, 1	10,4	21 -1		049		157	цч	132	7.0	130	४भ	64	TOVI	341	45	54	76	- {
100	16	739	1	36.6	વન	1,1	44		9.3		157	4,	173	7.6	130	8 #	6.5	I'VI	77.4	44	53	35	-
200	16.	21	1	12/5	प्रस	1.14	94		1 TX		137	4	133	.ro	128	34	103	144	74	44	33	35	_
7500		3.7"		,	1.4	1-	7 4, 4		17		157	4	1 > 15	40	12%	7.6	6:	1001	. 4	चंत्रं -	- 25	27	
2400	11,	 	↓	7.5	2.79	2, 4	14		01/		157	4.	143	Ţ	17.8	/ 1	6	100	74	43.0	5.	177	
200	12	127	 			10 H	0, 1,		.77	<u> </u>	131	ч	141	20	127	7#	60	1.1.1		43,5	2.43	78.5	
ARI		1 1/2		1	L	1-1	لــــا	L,	197	<u> </u>	1131	<u> </u>	141	4-0	130	刁拼	40	1011	. 14	4.1	54	3 -	
							L				.				MECHAN	C'S SIGH	ATURE	let.	/				_
3700	14	139	+-/-	157	45	7	95		97.		157	4	131	ZU	125	. 7	59	FEN	3/4	45	34	92	-
000		39	 	57	45	4	93		48		15.7	4	131	20	125		59	FULL	3/4	44	54	10	7
2000		40	1 77	57	46	7.5	76	 -	79		158	4	131	21	130	7	59	FUI	3/4	45	54	89	6
1000		477	+	58	47	8	97		100		158	4	13/	22	129	8	59	5011	3/4	46	55	90	6
1100		34	+++-	58	43	8	33		100		157	4,	1.31	22	/33	1	58	FULL	3/4	47	55	39	6
	16.		17.	32	44	17	43		44	 	157	1	/3/	22	131	<u> </u>	60	FUII	3/4	45	54	92	_
	16.		711	55	44	7.2			98		157	7	131	22	127	8	166	FUII	3/4	44-	5.4	90	6
TEMAR		12.0	<u> </u>	100			1	<u></u>		4	سنستنسا		173/	20		C'8 5107	GO MTURE	Full	3/4	434	<u> 54</u>	91	6
14.	1 77	129	1 7	1 ==	1 7/7	7-3	- 4 -		7.75		+								NTO	2			
1500			+	157	76	1 4	75		99	 	157	1	1/33	122	125	12	60	Full		44.5	54	87	(
1600	-	1 38		56	45.5	1-5	-		93		1757		1432	122	125	1.7	62	FUI.	₹4	77.5	ऽ५	94	
1700		1.59	1	54	42	176	95	-			1-458	- 	1,33	23	120	17	63	Full	137	44	53	93	
1900		-153	+	137	73	6.9	132	-	76		1/28	-3-	1/-24	122	1/20	16	63	Full	77	42	51	90	
2000		17/	+-	100	1/2	 	173		1.43		1257	_ک_	132	A/_	1/5	ع۱	67	Full	3/4	72	51	87	
2100		37		54	72	15	95	├─	76	 	157	1 2	1727		1 -/-		1	 	 		ra Bida		_
550		135	+ +	127	1/3	+	95		79	-	152	-3-	1/32		14.2	 9 	162	Full	1/4	72	51	90	
REUAR	× 5		/ -	121	- · · · · ·	<u> </u>	1.7.3	L.	44	<u> </u>	14.5./.	RUHHIH		1.23	1//7	105 510	162	Full	3/49	172	.5/	87	
												1			1		1	2	1		TONN A	GE PER SH	41 7 7

		لِـــــــــــــــــــــــــــــــــــــ	COLER				CONDE			21.0	R COND									DATE 7- 7- 7:
+	GPM		DOLEK			GPM	CONDE	APEK		1		COMPRE			ļ		PUR	IGE		WATER MAKE UP (READING)
												OIL	•		•					2490
				TEL	ER P.			WATE												GAL. USED
TIME	SUCTION	REFRIO. Temp.	REFRIG. LEVEL	¥	оит	DISCHARGE	COND. TEMP.	ž	OUT	POSITION CAP.	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR AMP S.	SUCTION P RESSURE	DISCHARGE	OIL	REFR. LEVEL	COMMENTS
300	V			٠, د	4:	• 1		2.1	-77		T5	' ర	114	81	15					
400	7.			7:_	11 6	24			87		T	14	14	81						
100					11 -,	1.62		3.2	37		F.S	13		81	1.04		ļ	-		
0500	41.		<u> </u>	54	613	- 2		40	77		-		1 5	XI	7 1		<u> </u>			
400	47		 	51	2/1	175	<u> </u>		3.5		1	-	114	51	107		 	 		
500									3	 	1	`	114	81	91					······································
600			77.7	. 7	и;	19/3		7/7	X :		7	60	114	31	100			 	 	
EMARI				·			<u>. </u>			·		<u></u>	بلسنت		MECHAN	C, 2 210 H	ATURE	1		
2700	1 / 5				-77	:2.5			~~				17.4	87		حمر د				
2 800			111	5/	4//-	100		77	25		TEC	7/8	1/4	8/	108				 	
	73		7	52	17:	27		18	86	-	756	1.7	1/7	8/	1/2			 		
DOC			Fin		271 3	30		23	58		でん	36	110	87	1/10		 	 		
1100			F.11	5-3	41	13.2.		82	88		756	7%	110	8/	100			 	<u> </u>	
1200			F:11.	53	-17.5	135		22	90		736	1/2	115	8/	134			 		
300			FIII	7-3	41	13-		82	90		755	2/8	1/2	81	140					
1400	1.		Fil	₹ 3	4.	130	J	55	70		75 G	1/0	117	81	140					
EMAR	KS .														MECHAN	1C'S 51GN	MURE	RY	7.7.0	
1500	ज पा /	T	1 6211	1 53	140	1/72		133	142	1	170	1910	117	52	150		1	1-11	- / · /	
160		$\overline{}$	100	53	10	145	4.1	645	43	1 ×	150	7/3	1775	52	150	 	 	1	 	
170		1	Fai	33	2/0			1/	94	57	130		1177	31			1	1	 	
180			100	52.0	410	135	1	53	93+	7	750	776	116	-31	144			T		
190	a 1/2		10	32.	70	1772		92	92	1	1776	179	1116	51	137		-	+		
200		1	Full	52	140	130	1	もり	171		1750	7/9	115	82	131	Ī	T			
210			401	451.	11/2			1 BI	40		136	75	114	31	127					
550	d <u>177</u>		Fuc	137	110	127		64	54		757	7/8	115	51	125	ट इ इद				
REMAI	uk s											HUNAIN			MECHA	१८ इ शह	HATURE	4		TONNAGE PER SHIF
1												1 1	24/1	ک ک	1		1.	1	4	12 TO 1

	11 1	ri/s							A-1-1-				G LOG							
ŀ	GPM		∞0LER			PM	CONDE	SER				COMPR	ESSOR				PUR	GE		WATER MAKE UP (READING)
Ì	GFM				ľ	PM			Ì			011	L	- 1	٠ [
Ī		•		WATI				WATE												2400
TIME	SUCTION	REFRIG. Temp.	REFRIG. LEVEL	ĸ	00.1	DISCHARGE	COND. TEMP.	ž	our	POSITION CAP. INDICATOR	BEARING Temp,	LEVEL	TEMP.	PRESSURE	MOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	TEVEL OIL	REFR. LEVEL	COMMENTS DO UB RIT L
300	44		170.1	20	U,	1-1-4,		32	94		T4.5	43	115	70	1-14					26 76 65%
400	44		1 4.1.	50	4.5	145		87-	94		T15.6	. 13	115	80	124					
100	4.5			47.5	494	1.4.2		32	93		1150	~ 3	113	20	123					
200	43			119 9	- 98	142		8.5	35		N	. 15	115	80	123					
300	44		T	49	57.	1413		31	93		T. S. C.	1/3	114	80	1115					
400	du		1	49.5	-39.5	1 2.7		30	Ct.3		TSG	13	113	スワ	204					
200	4 -			119.5	31.5	1 7, 19		3,7	913		T. 51.	113	1173	32	113	ļ				
600 EM ARIA			[- I	498	199	3η		80	9 5	<u> </u>	T.5.6.	1/3	113	3 9	110		<u> </u>		<u> </u>	
·															MECHAN	3//	7.47	64	/	
700			Full	50	40	136		20	92		IZCG	74	118	80	116		·	21		
800			Full	50	40	139		80	92		TSG	14	118	80	119					DA WE RH DP
	45		Full.	1-1	40,5	142		80	94	<u> </u>	TSG	1/4	120	80	124					185 76 65 71
٥٥٥			$F_{I}U$	5-1	4/	144		80	95	-	TSG	17.	120	80	127		l	<u> </u>		
100			Full	51	7/	144		82	95		TSG		120	80	127					
200			Fill	2	41	146		82	96		122.E	-/-	122	80	134			ļ	<u> </u>	
300			Fuil	50	70.5		<u> </u>	84	96	 	75G	17	122	80	/30			<u> </u>		·
40¢	125	<u> </u>	17.	180	10,5	17:	l	27	1.76	l	TSG	1/4	192	80	126	IC'S SIGN	ATURE	R	<u> </u>	<u> </u>
	T . T. /				* 710	7					-		,		<u> </u>			14.1	Ya	raco
<u> 500</u>		<u> </u>		1 2/1	140	149	-		97	<u></u>	150	1/7			145					
600			 	52	40.			195	975		754	1/7		31	1417	!	Ļ	<u> </u>	Ļ	DB WB RH D.
700			1	54	110	153	 		991	ļ	139	114		3	149	<u> </u>	ļ	 	ļ	98 87 65 3
800		 -	Full				<u> </u>		9.7		130	147	120		132	<u></u>	ļ	ļ	L	
900			FULL		77	147		335			12/	L 477	1100	1 34	125	├	!	 		
200			1-0,L	50.		137		32	945	 	1730	1.77	119		121		<u> </u>	ļ	<u> </u>	1
100									197		1	1/2	1 1 1	31	115			 	 	
5500			16000	149.	11.72	138	1	925	77	1	750	RUNNIN	1447	1-20	MECHAN	2000	AYURE	ــــــــــــــــــــــــــــــــــــــ	ــــــــــــــــــــــــــــــــــــــ	L
												•	2	1/1/25	- ECHAN	1103361	1	2M	·	TONNAGE PER SHIFT
												l		·· <u>-</u>			12	1111	₫	10.12

HT H	*+	i,	7								All	R CONDI	TIONIN	G LOG							7. 3
Ţ			٥	OOL ER				CONDEN	SER				COMPRI	ESSOR				PUR	E		WATER MAKE UP (READING)
	GPM					ľ	PM			İ	.		011	L	İ	.		1			2490
			•		WA1				WATE												GAL, USED
TIME	SUCTION		REFRIG. TEMP.	REFRIG. LEVEL	<u>z</u>	out	DISCHARGE	COND. TEMP.	×	оот	POSITION CAP.	BEARING TEMP,	LEVÉL	темр.	PRESSURE	MOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. Level	COMMENTS
300	15	_	Ţ.,			410	10			٩,		144,	4"	127	22	1					
60			20		37.5		715	-		92		1 24.5	ų۳	1 7	22		 				
100			7		·	312.5	7	3112	36	41		145	4 -	126	2.6	113	 -				
200			13		-	41	5	2,4	311	9.2		143	4.	126	7.7	114	 -				
166	71/2	7	74.1		37.5		-=-	94	24	97		14,1	-11-	176	, - ,	1.5	 				
500		\neg	7.		51:5		7	4.4	84	3,4		1247		12%	2.2	1 . 4					
600	1%	7	7	("	<٤٤, ٠	4/19	1.6	4.4	3	4 4		143	Ч 1	126	76	117				-	
M A FU	K.S.								•							MECHAN	IC, 2 ZICH	ATURE			
700	7	1	3-	1	1-7	140.5	80	99	82	92		176	2	729	122	727					
800			3 6	/	23	1//	3	100	83	93		146	_3_	129	22	123					
900			S	_/	53.5		9	700	83	94		146	3	129	22	125					
000			<u>: </u>		52.	72	9	101	24	95		14%	3.	129	22	125					
100			36		53.5		1	12/	84	95		1/47	3.	129	22	125	ļ				
500			36.	 	54	412	10	123	85	75		147	3	1/29	22	1/27	ļ			 	<u> </u>
300 400		_	36		57	1 43	70	103	86	95	 	195	3	129	22	127		 			
MAR	KS /					1/-	148-	100	-66			A division		1/4/	102		IC'S SIGI	ATURE	٠		L
-	 	_	31.5		1 577	3 47 F	1/0-	7092	- /2	- 27		1 11: 4		1 13/		1750			F1 1	7 7	111
<u>600</u>		7-	3/1	 	34		10.2	1021	57	96		145	7	125	22	130	-	 	 		
70		1	36.5		59.5	4			3 88	97	1 A	195	4	130	122	129		┼──	Ы.,	10.	<u> </u>
80		6	36	1	55		9	C13	36	965		1/1/5	4	120	22	125	 	 	1 30	149 1	DFF
90		Ž	36	 	33		7.8	97	45	45		1745	1-tr	1/20	21.5	1778	 	 //	1	 	112.15
00		6	35	17	1 5 2		7.5	7 2	53	925	 	17-17	47'	19219	215	1115	 	 	_	1	77272
10		U	26		150.		7.4	725		car		146	9	1127		116					
50	0 /	5	3%	1.7	52		7	.96	310			1143	4	726 THE	121	1_115	1	1	L		
EMAI	uc s												HOWNIE	GTHE		MECHA	HIC'S SIG	MAYURE,		,	TONNAGE PER SHIFT
													1	24/1	'S			19.	1/21/	<u> </u>	12 TO 14

NIT MS	<u></u>									Alf	CONDI	понін	G LOG							:	DATE
			GOLER				CONDEN	ER				COMPRE	SSOR				PURC	Ε		WATER	MAKE UP (READING)
ſ	GPM.					PM				1		OII								:	٠٠٠
Ī				WATE				WATE				Ī								(AL. USED
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	Z.	OUT	DISCHARGE	COND. TEMP.	z	out	POSITION CAP. INDICATOR	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	HOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. LEVEL		COMMENTS
300		7.7	-	-,	47		-		311		11. 6	वर	1:50	7.6	1	50	115		-		
400		-, 7		3.4	(b)				0111		116	11 -	156	7.0		7.	1.12	*:			
100	-	4.		53.	4357	_3	5, 9		1.5		1	41.	136	11. 7	113		- 1	1 .			
200		,		50	4. 4	3	-1		15		144	-4 **	1 66	1 43	1 >	2	13				
300	17.0	*	1.4	1.7	41	7	.7.		201		161	4 1	1 46	70	116	١٠	16	VI.	Ĭ ' '		
400	,		· ·		10.1		2.1		1. 1.		17,1	44.1	136	7.	-		33	10	1 . 1		
500	, 7	-		5.1	-1,	1.5	1.7.5		94		121	4-	136	7.65	1 1		35	10	1 31		
600	7,3	7	- 2-	7.7	4.5	-7 K	03		10		131	4	175 is	73	124	S	74	1:	,(",		
EMARI															MECHAN	IC'S SIGN	ATURE				
70C	17	7.		Z 4	41	7.5	97		93		122	2	138	20	120	2	34	1/2	Firt		
200		27	7	< ?	41,5	7.5	97		93		122	7	138	20	122	2	34	/2	$F_{\mathcal{I}}$		
2900		36		54	-/.	2	98		74		122	2	739	20	120	2	34	1/2	First		
DOC		27		55	43	8,2	92		95		1/23	2	139	20	120	2	3 4	1/2	F11.1		
1100	17	37	7	55	42	8.2	99		95		123	2	1.40	20	130	2	34	1/2	F:11		
1500		2.8	1/	55	74	9	100		95		123	2	140	20	130	2	34	1/2	$Fn \mathcal{Y}$		
300		32	7	55	44	9	100		9.5		123	2	1/39	20	122	2	34	1/2	F.	•	
400		3.85		5-	144	7	.00		25		123	2	/39	20	127	1	30		F,		
EMAR															MECHAN	IC'S SIGI	NATURE	JE)	1/19	.0.0-	
150	1/6	39	17	155	113	7.2	1/000		25	1	1723	2	134	120	129	Z.	135	1/2	2/3		
160		17	17	75	L/3	129.3	151	7	97		123	2	133	20	130	2.	36	1/2	100		
70		35	17	1 23	43	4.1	100.5	7	196	7	123	2	1159	20	124	3	33	1/2	23		
180		37	d 7	1 54	1 42	9,9	99	/	95	1	17/22	1 2	1135	20	126	5	134	1/2	FULL		
190		1 35	17	1 30		34			97		127	12	1732	20	127	13	178	1/1	E.		
200			' - ' , -	1 33		8.2			96	-	123	12	1 3.7	20	1/22	4.0	33	1/2	FULL		
		37	1 2/2		4/2	45	47	_	96		17.3	2	735	120	1777	1-7	138	1/-	7/3	 	
ड्राठ	~		3/3			7.7		-	950	 	122	-		20	11/1	+ =	135	1/2			
SSO	<u> </u>	<u> </u>	1 77.27	2/15	172	144	1-/12	<u> </u>	1.778	-	-1-/	HUNNI	I THE		RECHA	103516	HATURE	_	1/2	L	TONNAGE PER SHIP
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UNITH		•								414	Al	R CONDI	HINOIT	G LOG								DATE		>./
	GPM		٥	COLER			PM	CONDEN	SER				COMPR	ESSOR				PUR	GE		WATE	R MAKE US	READING	
1	GF =					ľ	, P M						OII	L								2400		
		T			WAT				WAT										.			GAL. USE		_
TIME	SUCTION		REFRIG. TEMP.	REFRIG. LEVEL	¥	OUT	DISCHARGE	COND. TEMP.	×	оит	POSITION CAP. INDICATOR	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	OIL OIL	REFR. Level		COMMEN		
300	1		27		345	4.		V		97		1:3	4 ,	151	7 ~	121	3 #	2.5	100.		ul	. d.		
400	<u> </u>				1 5	٠: ا	\ r.	<u></u>		9)		158	C)" ,	131	ص	1 - 0	3	3	14		411.5	シェ	7 /	٠.,
2100		-	27		- ! = :	-41	- 33			'< X		58	11.4	137	7 "	141	15 17	- :		7.7	UN 2	•	7	
2200						16:	75			147		158	4 "	130	7 35	1 4 1	. #	' 0						
2500	-					4:	275	- '		37		148	41.0	13.0	1 7 11				-/		11.			(
2500		-+			-,					3			<del></del>	- 0	1 - 11	1 ;		<u> </u>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					
2600		<del> -</del>	37 .		رج	W.	79	3,		26		158	4 -	130	₹4,14	17 /	-,	-			- 2			
REMARK	15		<u> </u>			* 1.7.	<u> </u>		<del> </del>			1		17.50	,	MECHAN					Li	-:	X.1	<u></u>
200		, 1	इ.स.		54			Siz-		0 621			_					1.			-·			
2 <i>76</i> 0		<del></del>	37	<del></del>	57	7.2 7.2	7	90		98		158	-3-	132	21	135	-3-	30	12	38/	J. O. 1	<u> </u>		
0900					2 6	43	<del></del>	94		3.		158	- 2	122	2)	135	7	30	1/2	177	40.5	<u> </u>	8,2	- 7.
1000		7	35		500	7.7	<del></del>	95		98		158	7	131	2)	77.	=	30	72	1/2	7/	7/	8	
1100		-	37		56	4.5	7. 3		-	99		158	3	131	21	4	<del></del>	-30			611	<del> </del>		<del></del>
1500	1	/	32	7		2/4/	7,2	3/2		99	-	138	3	/3/	21	172	-3	30		<del></del>		7	-5-	<del></del>
1300		_	3%	/	56	4/4	7,5	0 , .		99		158	3	1/3/	21	129	3	3/	1/2	1/2	7.	5.2	93	ج
1400		ك	32	_/	5°6	44	- 5	C,		22		158	3	131	21	130	-	35	<i>(7)</i>	13	172	52	92	<del>- ``</del>
TEMARI	KE															MECHAN	IC'S SIGN	NTURE	El V	22.	3/1-	-		
1500	1 /	1	93		5.	144	12	14	,	97		1155	4	120	121	127	3	1 72 /	1/9		1/2	53	120	. 6
1600		6	35		5/2	44	8,2	ويتاوع	7	975	1	133	4	737	127	130	2.	10	1/3	1/2	<del>1/2</del>	53	<del>-//3-</del>	<del></del>
1700			74	/	56	40-	30.3			05	À	150	4	132	21	132	U	31	73	1/5	2/3 F	53	27.1	
1800	3	1.6	37.1	7	55	193	35	1.3		94		1/59	4	1/32	101	125	L/	34	1/2	1/3	4/2	521	100	6
1900		16	37/1	1	1.35	425	3.3	- 3		77		1.59	- 57	121	121	122	-7	35	1/2	1/2	42	52	100	6
2000		14.	37		290	43	8	975		96+		150	<u> </u>	1/30	21	129	9	33	1/3	1/2	4/2	.52	98	6
5/00		16	31	3/11	5 9.5	7.73	7.8	77		196		158	4	1,130	21	1118		37	1/2	2/3	4/15	5/.	- 67	6
5500	<u>g</u>	16	3)	3/4	54	43	17.7	960		957		150		130	**************************************	116	. 4	35	1/2	1/2	4/1.5	3 /	45	1.
REMAR	OK 5													OI!	11/2	MECHA	विष्ट देव	SAUTAN	15	2	211	TONH /	TO 4	41 FT
VYRAM													l	/	ツトン	.1			, –	.//-	U	. Ii	to 12	

	# 1H		COOL ER		1	<del></del>	CONDEN	SER		7		COMPRI	ESSOR			*****	PUR	C.E.			-9-91
İ	GP <b>M</b>					PM				ŀ							PUR	<u> </u>		WATER MAKE UP	(READING)
.								·				011	L .		,					2400	
- 1	1	٠ ا	1	WATE		1	- 1	WATE													
1	-	1	. 1				t													GAL. USED	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. Level	ĸ	out	DISCHARGE	COND. TEMP.	<u> </u>	our	POSITION CAP.	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR AMPS.	SUCTION P RESSURE	DISCHARGE	OIL.	REFR. LEVEL	COMMENT Dr? 11215	s ,eti D
300	41		1000	4.3	ત્ર	1:2		90	90		TISHO	V (4)	117	80	102	<del>                                     </del>				803 73-	73.90 )
400	46		1 1	44	ંત્રુ	131		<i>ያ</i> )	90		TS.C.	7.8	117	80	101						
100	15		[0.7]	:17	40	130		४७	40		15 6	1.6	1	70	101						
500	<u>-(5-</u>	,	17.31	4	40-	129		79	39		~ ~	`K	117	80	100						
300	45		Fu.	114	40	132		79	87		Tis.6.	14	118	80	1.70						
400	45			464	40	130		72	89		T75, 6.	-/8	118	80	13-0						
200	45		179 1	44	49	130			89		Ti š. G.	1/8	119	30	170						
600			Full	(I)	પગ	130	L	79	89		7.5.6	113	119	80	120				·		
EMAR	.3							•							MECHAN	IC'S SIGN	ATURE .	11	,		
2700			F-011	8	413	13.5		79	92		156	1/8	117	81	107		7	· · ·	<u> </u>	<del></del>	
2 800			FULL	3	45	135		74	42		TSG	114	117	11	107					79 7 . 5	7 3
2900			FULL	31:	4	136		79	43		t56	1/8	1/7	81	100					,	<del></del>
1000			FU!	48	4	130		80	43		T56	1/2	117	31	1.0%						
1100			FUIT	49	4.	134	-	30	93		<u> 756 </u>	1/8	118	81	110			L			
200			Cu!	49	41	138		8)	95		T36	1/8	119	81	111						
300			Esti	1.9	LI.	140		82	96		T.0	. 9	119	31	112						
1400		L	E.	119		141		0 6	96	<u></u>	T50	118	119	31	1113	IC'S SIGN	<u> </u>		<u> </u>		
															TECHAN	116.3 2161	WIUKE	IM	0		
1500		l .	(1		1/25			32.5	97	· .	1756			141	127						
1600		<u> </u>	1-1	505	4		1	93	94	L X	TSU	119	119	41	130	I		$\Gamma$		DB WO	R
1700			1 .	50		145		32	GL		1156	1/4	119	191	1121					995 91	88%
180	416		12	1 79.		134		795	89	7	TSG	1/2	117	31	112			T		T	
1900			F 1.	48		135		775	93		736	1/5	1117	छ।	111			1	<del>                                     </del>	<u> </u>	
200		l	res	485	40.	1/33		77	9/5		TSG	1/9	117	50	105	1					
210			3 71	1/3		1.31		765			130	1/2	113	30	196	1			1	· · · · · · · · · · · · · · · · · · ·	
		<u> </u>	10.	149	40.	129		17	360		TYr	1/4	1/17	30	192	10 इ इ द					
550	x S											RUNNIN	244		MECHA	गट इ इ.ट.	INTURE			TONN AG 12 T 0 T	E PER SHIFT

			200LER				CONDE	ISER				COMPRE	SSOR	T			PUR	GE			E UP (READING)
ſ	GPM					PM .						OIL			. [					2400 _	
	İ			WATE	P.			WATE	*.												SED .
TIME	SUCTION	REFRIG. TEMP.	REFRIG. Level	ž	оит	DISCHARGE	COND. TEMP.	æ	OUT	POSITION CAP. INDICATOR	BEARING TEMP.	LEVEL	TEMP.	FRESSURE	HOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	TEVEL OIL	REFR. Level	СОН	MENTS
300	21.2		i .	50	40.5	1 - 4		77	35		TS45.	122	114	71	,57.					:	
00	내 는			50	42.5	-1			85		Tisis	11/2	1/4	31	12						
100	-0.2			50.	112 (	7		71	8<		T. ~.	7.5	111	8.1							
8	好工		r" · · · ii	30	≀(r -	123		70	15		1: -	141	114	40	10						
0			L	Un 3	27.51	4.2.6			34	ļ <u> </u>	1	( : )	114	31	,						
8			<u> </u>	49:	प्र	· - '-			3-1		7.1	´ 1	114	81							
200	7 -			119.5	7:-			, j	44				1 1/	18		<b></b>		ļ			
600	لخنيا		1	119.	40	1 1		7/	74	<u></u>	T.5.6	218	114	81	120		L	<u> </u>	·		
MARK								•							MECHAN	IC S SIGN	ATURE.				
700	177		17	100	415	1127		29	85	·	17.5	7.8	114	31	103	·	1	<del>                                     </del>			
800			7	30	.17	: z '		79	82		71.	7. 8	114	3/	103						
900			1 11	5 /	11.	127		79	3 6		-:-	7/3	114	87	104			<del> </del>			
000	1 3		11 "	5/	11:	122		80	37		T> .	7.8	114	3	154			1			
100			1.11	5 '	175	.22		81	57		71	7/5	115	81	155		1				
200			1 "	51.	42	120			37		735	1	114	81	137		1	T			
300	112		F.111	5	417	130		-	8.9				115	3.7	111	$\overline{}$		T			
400		T	6	-	14.7	131			87	1	7	7.5	115	6/	11:			T			······································
MAR	KS.											,			MECHAN	IC'S SIGN	ATURE			-:>	
500		<del></del>	T	1				-		1	17:		115	15.7	132		T	<del></del>			
600		1	1	1				1		<del> </del>	7	mi.	1,3		135	<del></del>	<del> </del>	+	<del>                                     </del>		<del></del>
700		<del></del>	1.7	52 -	43	134		37.2	73	-	7.10	7.2.	115	31	127	<del>                                     </del>	<del> </del>	_	<del>                                     </del>		<del></del>
800			1.	ラン、	- 4/1	129		3	5,7	-	755	7 :	114		120	1	1	1-	$\vdash$		
900		<del> </del>	1011	50	1/3.			30	48		750	572	-	451	110		<del> </del>	<del> </del>	<del> </del>		
40			1700	1/9.5	10.		$\overline{}$	72	39	1	75 =	15/3		5	105	<del>                                     </del>	1	1	<del>                                     </del>		
10		<del> </del>	1506	219.5		120	<b>†</b>	199	59		750	11 8		27.	100	<del>                                     </del>	<del> </del>	<del> </del>	<del>                                     </del>	,	
20			1/21.	Late.			-	770			130					1	1	+	<del> </del>		
	ek s								1		al-harmer	HUNNIN	· · · · · · · · · · · · · · · · · · ·	سخمصا		1 6 2 516	1.49.10	.b.			NN AGE PER SHIF

	# 4		COLER				CONDE	SER	T			COUPR	SCOR				PUR	C E			7-9-9
Ì	GP M	· · · · · ·				PM			$\neg \neg$			OII						UE I		WATE	R MAKE UP (READING)
		1		WATE				WATE												١	2400
TIME	SUCTION	REFRIO. TEMP.	REFRIG. LEVEL	×	оит	DISCHARGE	COND. TEMP.	¥	оит	POSITION CAP. INDICATOR	BEARING TEMP,	LEVEL	TEMP.	PRESSURE	MOTOR AMPS.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. LEVEL		COMMENTS
300	14,5	32.0	1,	51	42	7#	W.	.3,1	91		143	44	126	٦١	106						
400				51	+1 t.	14	य न	Xª	91		144	цч	126	ા	105	$\varphi_{}$	2.6	NFF			
100			15	511	14:50	7 45-	બંધ	814	91		1 4 5	4"	المها	ટા	125						
500		×, ,		5.	9 6	74	44	×3,	90		173	4"	17 6	21	102						
300	1::	33.8		50 .	या र	4.5	e i	311	90		144	4 .	127	71	104						
466		3> 7	1"	50 5	:11 :	4.3		3 4	90		141.	4"	127	51	1 27.		<u> </u>		<del> </del>		
200		3. 3	1,5	50 5	111	4 -	-21 <u>.                                    </u>	34	ه. نه		744	24.5	127	7	151				<b> </b>		
EMARI	100	3.7 .	10	52 5	पा	6	36	34	40		145	u i	117	15.	/ : n	ete eren		<u> </u>	<u> </u>	<u> </u>	
															, ECHAN		ATURE	1/2	_		
700	15.	3.	1	5 /		7	· /:	2 4	92		1-14	4	127	22	104			7			
800		7	-	۲,	Ŀ	7.5		83	92		144	¥	127	22	157						
900		3	1	52	2	715		83	43		144	Ţ.	127	77	100						
000		30	<u> </u>	5 =	412	7.5		83	43		144	7	127	2.7	110						
100		13.6		22	47	6,5		84	<u> 43</u>	-	144	LI	127	2.2	::5						
500				53	42	3.5	1.		43		144	4	127	22	1:5						
300				53	11.	-7	4,	33	44		144	-1	127	2.2	13					1	
<u>400</u>		<u> </u>		33	1117	2	- 5	85	44	<u> </u>	14.1	:/	127	22	119			L			
EMAR	KS														MECHAN	1C'S 51GF	ATURE	1.	7. )		
500	16	130	1	157	L	7,2	<u> </u>	61.	95	\ \ /	1114	: /	125	1 2	<del>                                     </del>	T		T	<del>-</del>	Τ	
600		1.7.	1	35 1	4/2	7.5		306.5	45.5	<del>  X</del>	143	÷Ι	125	10 2	1	$\vdash$	1	<del>                                     </del>	<del>                                     </del>	Total Control	
70		- ,	1	17.7		72	-	276	45	/	115	11	127	22	119		1	1		<del> </del>	<del></del>
80		155.	31.72	51	-11.	-7		32	91	-	144	17	126	2/4	1112	1	1.	1 ik 9	.7	0:1	
90		35	3/4	50	41	6.8	1 11	5,0	- 4	<del> </del>	1 44	17	131	21	110	+	<del> </del>	<del>  ^ /</del>	<del>1 -</del>	1, 1,	
200		35.		50	4/1	1.5	-53	40	335	1	1114	11	1,, 5	2	107	T	<del>                                     </del>	t	<del>                                     </del>	· ·	<del></del>
10		1 75	1-70	50	42	1, 2	92				14/3	4	1.2.7	127	93	1	1	+	<del>                                     </del>	<del> </del>	
20	~	1 3 6	17	50.	1 42	1-	7.	77	86	-	1.13	17	1	1-2			1	<del> </del>	<del>                                     </del>	<del>                                     </del>	
								T. Marie	-	Total Control		HUNNIN	21/	*****	MECHA	C 2 51 G			ــــــــــــــــــــــــــــــــــــــ	<u> </u>	TONNAGE PER SHIF
EMAI																	B	n:			12 TO 1

	## "	5/1/								Aii	S CONDI.	TIONIN	G LOG	•						7-9-9
	,7		COLER	*****			CONDEN	SER	تت			COMPR	SSOR				PUR	GE		WATER MAKE UP (READING)
ſ	GРM				l	GPM .					-	011	-		- [					2400
		·		WATE TEA				WATE TEM												GAL. USED
TIME	SUCTION	REFRIG. TEMP.	REFRIG. Level	¥	out	DISCHARGE	COND. TEMP.	Ŧ	OUT	POSITION CAP. INDICATOR	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	LIOTOR AMP S.	SUCTION P RESSURE	DISCHARGE	OIL LEVEL	REFR. LEVEL	COMMENTS
300	(1)	36,		515	J -	7.2	14.		96		1.2	Ч۳	134	7.04	110	17	વર	1/L	7-4	
100	17	71.	17.	315	L1 -	1, L	1.		92		1:2	4.	134	100	110	., "	UД	SIL	226	
100	17.	-7.	1.	71.5	41-	1).3	91		92		122	4.	134	204	1.0	6"	40	4/2	7728	
200	*: ^	7	10	ं। प	ા કાક્⊹	72	11		72		122	4 4	1.34	20#	109	2 1	Uo	16	25	
300	111	5		51	41.5	7.1	114		Cy :		12-1	LI Y	135	7.0#	113	6.0	4.5		7.3	
400	.7	35 %	. 7	51	U//are	7.	49.55		، اث		1 201	u ·	122	-z 07.	. /	1,	120		7.51	
S	7	3 :		51	7	7	3.0		9.2		1 51	ų٠	175	20#	29	1	:7:5		. ,	
50		55.5	1	51-	परा, इ	ሳ	4.0		٩٦		13.1	4'	175	70 ti	$\Box 111$	<b>←</b> "	39	.4.	3	
EMARK	·s ·							•							MECHAN	<u>IC,2 21è</u> H	ATURE!			
700	12	3	1	3.5	4/3	8	4.5		43		121	4.4	134	70	115	1	34	1/2	7	<del></del>
800			7	5.7	47	8	98		45		121	4	134	20	113	3	34	1/-	100	
900	_/7		1	5.5	41	8	-j ?		4.5		121	1.2	136	20	119	6	39	1/2	1.1	
000	17	Ţ	- 1	3.5	41	6	7.4		95		12'		136	20	1:0	6	39	1 :	1	
100	1 -		1.1.	5%	41	3.5	1000		97		121	)	136	20	122	0	39	1.5	11 .	
200			1	5.3	-,	375	9"	-	97		121	प	136	30	122	12	39	1/7	7 11	
340		7	,	53	4.	1	707		57		121	4	/36	2.2	112	6	2.7	1/?	F '	•
400	. i	<u> </u>	1	55	4/2	1.7	101		97.	<u></u>	121	:1	130	20	1117	7,	3.7	, ,	1	
MARI	Ks														MECHAN	IC'S SIGN	ATURE		176	•
50C	16	13	T	1.5	T	T			191	\ .	157	21	137	21	120	5.	13:	1/2.	Full	
600				53	1.	1			278	X		211	134	21	121	5	4/1			
700		27	1	33	- 4/2	4	11		47		720,	2 '	/37	21	12 0	5	110			· · · · · · · · · · · · · · · · · · ·
800		300	: /	31.	Lii	7	a.		95		12:	7	134	23,	110	5	30	-	12	
900		177	3 14	500		1 3.5	73		9,	<del>                                     </del>	124	2	127		107	<del>  ~</del>	77	1/2	1, 1	
200		300	1-14	5.5	47	4/3	12.0		99	7	121	2.	/37		120	17	134	1/2	772	
100		13,3	1	50		12	71		37		12/	2	737	20	101	4	33	1/2	123	
200		33		500	4/+	1 7.7	43		89.		121	7		2 2	100	6"	40	1/2	0/8	
EMAR			<del></del>							demand or		HUNNIN	2 1/4/2	37.24		मीट इंडर	HAYURE	11 5	1-62-	TONNAGE PER SHIP

NH TINC	#6	1/2							19	Al	R CONDI	HINOIT	G LOG							1	DATE 7 -	9.1	Ų
			SOLER				CONDEN	SER				COMPRI	ESSOR				PUR	GE		WATE	R MAKE UP (	1 1	
ľ	PM				ľ	PM						011	L		. [						2490		
				WATE				WATE													GAL. USED _		_
TIME	SUCTION	REFRIO. TEMP.	REFRIG. Level	N	OUT	DISCHARGE	COND. TEMP.	£	оит	POSITION CAP. INDICATOR	BEARING TEMP,	LEVEL	TEMP.	PRESSURE	MOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. LEVEL		COMMENTS		
30a	17	16:	1."	1.275		7. 9	ъ.		44		138	4 "	119	20	1116	. 0	54	"IL	٠	41.3	: 1	9/	
400	1 1	76 3		-52.5		715	<i>,</i> ,		ધ મ		158	11"	1.19	10	155	2 "	5.4	1.2.2	370	41.5	. 1	10%	<del>√⊃ú</del> (.
100	تأث	3 .5 . 5	-1	32.5		115	11:2		41		158	٦,	129	111	105	۷	34	77		Sect. 5		4%	
200		40.5	, "	315		7 14	9%		7 1		158	<b>~</b>	129	(0)	107	2 "	3.1	1/2	1	411.5		7. 5	
300	-7	7.7	1 "	-9.5		1,-	15		73		1 < 3	45	1,0	7.0	1	,	; .	۲,	2+	7		11 N	7
400		<u> </u>	; 4			19	·		9.		1.15	1.	. 7 9	4.0			, 1	110	/ 1	4			1
500	-1	3:	1	51		1011			コーレ		1 2 7	1.7	129	ひコ	120	1 4	34	12.	٠ و	41		-	
EM ARK	, 7,	56	10	51-		6.3	711.5		4.5		159	4	131	70	101	17	34	١ - ١		41		, -	
EM ARK	•							•							MECHAN	C'S SIGH	ATURE	1:6.	1	,			
200	. 7	3/		3.5	43	7,5	£/		95		1.33	2	130	20	70°°	?	33	1114	17.5	-/ /			
2800	17	.3 '	1	17.7	. V	7.5	۷.		44		158	<b>"</b>	133	20	1.12	Z	33	114	17.2	3.7	-		3
7900	17	.3	1			ð	97		90		138	5	130	دن ۲		2	33	٦			·	·	
000	. 7	7	1		3	8	97		95		.58	-1	130	20	. 1.7	2	33		77.1			31	_
100	/7	3	1	53	1.1	*			95_		57	4	130	20	113	2	₹3.		1	· · · · ·		· ·	_
500	17	3.		53	73	8		-	94		133	IJ	136	76	118	2	33	1/4	112			·	
300	17	17.1		77	4.3	4.1	-		94		15.7	4	130	21	120	2	3 'r	1, 4		4		<i>-</i> ;	
400	17	3-	<u> </u>	53	43	8			0.4		157	4	130	121	124	2	34	114				100	
EMARK															MECHAN	IC'S SIGN	MTURE		77 []				
500	1:2	37		1 5445	H 3	9.1	7		75	\ :	150	4	130	15	12 2	7	7.17	114	_	1/2	51.5	100	, ,
600	15	35	7	35	43-	5.3	475-	$\nabla$	95.5	X	158	-/	150	التما	24	77	37,	-2	14	-47.5	- <del></del>	100	
700	16	27	1	3.5	1/3	7		7	75	7 5	736.	17	13.	21	23		34	15	- 7	1115	5.2	5 9 5 9	
1800	16	36	LI.	<b>5</b> 3	41.5	9	7		93		157	4	129	-20	1/2		34	1/3	1/4	4/1	5.5	97	
1900		37	314	5711	412	6.5	43		72		157	4/	25	20	110	12	33	1/3	1/2	10.5	49:	, ,	
2000	1.	37+	1/L	52	6125	16	97		89		157	9	129	2 .	95	2	31	1/1/	1/-	4/1 :	:/95	36	
2100	16	375	111	52	73	5.3	9/5		55		153	<u>-</u> -	129	15	91	2	32	114	1/3	4,1	1100	25	
5500		$\Gamma_{i-}$	11-	5/4	1 4/3	16	-92		89		1150	1.7		20	90	.3	30	1/4	73	41,5	- 7	79	
EMARK	s											RUNNIN			MECHA	तिट <u>इंड</u> िटा	TATURE				TONN AG	PER SHI	FT
												i .	24%	J.	1	B	21:0				12 TO 6 TO	:	

# 2	Yor	t								Al	R CONDI	HIHOIT	G LOG								DATE	1-9-0	2 H
	7		COOLER		İ		CONDE	NSER				COMPR	SSOR			-	PUF	GE		WAT	ER MAKE L		
	GPM					GPM						011										or transmit	
.				WAT TEX				WATE													2400	D	_
TIME	SUCTION:	REFRIG. TEMP.	REFRIG. LEYEL	ž	out	DISCHARGE	COND. TEMP.	z	OUT	POSITION CAP. INDICATOR	BEARING. TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR AMPS.	SUCTION PRESSURE	DISCHARGE	OIL OIL	REFR. LEVEL	- 1	COMME W B		
300	44		Evel	47	4115	125		30	86		T/5,6	-48	214	82	920			-		DB	600	R+	
400	44		1-00.	47	41.5	125		80	36		T.66.	726	114	32	90					'h-a-	O v	145	-
100	44	<u> </u>	FUN	₩.	41.5	125		80	86		T. S. G.	748	1	82	90								·
3500	111		Full	46.5	41	125		80	86			716	110	82	89								
300 400	44		150 N	46,5	#1-	125		30	86		TSG.	748	114	82	89		ļ						
600	74		1501	46,5	41	125		79%	36-		T.S.G.	74	117	82	23			<u> </u>					
30			1011	48	4	129		80	37		11,200.	74	114	31	18.8			<u> </u>		ļ			
EMARK			<u> </u>		<u></u>			+ 2 - 1	-0/-		1			31	MECHAN	C'S EIGH	ATURE !	1 //	<u> </u>	<u> </u>			
3700	ना		TRU	46	40	1.130		80	VI.		1700	71K	113	<del>\$1</del>	100	-	<del>45. 1</del>	11	<u> </u>				
2 800			Ali	465	10	130		<b>k</b> 7	86		TUE	7/8			705			1/1				<u> </u>	
2900	41		17411	47	41	130		Xa	8.7		78 G	718		X	176			<del> </del>		ठिख	<u>ত্রের</u>	Pi H	7,
000	43		1311	50	48			80	86		786	48	114	81	100		<b></b>	1		170	66	79	-6
1100			1321	50		1978		XO	X.S		7.6		114	81	700					<del>                                     </del>			
1500	1 77		1211	52	193	197	1	70	73		ZXG	72.2	110	X.	100								
300			<del>1 211</del> 1	52		15		80	X6		78G		1,15		1:17								
400		L	LALL	$ S$ $^{\prime}$	43	151		80	70	<u> </u>	ZXC	W/K	1115	(X)	710	C' \$ 516 P							
	+ 11		1 8 20	<del> </del>							. 1						MIURE	whi	ليكر	m			
	4/2	<del></del>	F- K		401		<del> </del>	(2)	90		730	2/4	113	91	1-10								
600		<del>  X</del>	Fost		70	_	1-X-	500	54	ĻX	1756	73	115	41	127				L	Ŀ			
1700		<del>  / '</del>	1 E-1	-52	1 11	122		9/5		<u> </u>	136	2/3,	115	5/	127								
1800			1107	517	1 44	129		30	67.	ļ	ئدرا	1//2	115	31	122					L			
2000			For	5/	1 #	1/2 2		79,5	565	<del> </del>	17-26	1/2	115	30	17/4	<u> </u>							
2100		<del> </del>	1 5"	51	111	_		750			1755	7/5	114	31	107		ļ	<b>├</b>					
5500			60.1	50				725		-	739		115		102			╄	<del> </del>	<b> </b>			
REMAR	×3		<u> </u>	<del>7 //</del> :_	·	<u> </u>		142	77	-	400	HUNNIN	7/1/2	1-12/	J/2 JECHA	८ इ श्रदः	ATURE	<u> </u>	<u> </u>	<u> </u>	1.200		
											•	'	2	TAR	4	B	m				TONH	AGE PER I	MIFT
												i			L	Ø	1/4	1				[ ] [ ]	_

#5	Carr	ier								Al	R COND	HINOIT	G LOG							8-9-94
			COLER				CONDE	SER	1			COMPRI	ESSOR	-			PUR	GE		WATER MAKE UP (READING)
	GP <b>M</b>					SPM						011	L							THE PART OF THE PARTY
				WAT				WAT										1 1		2400
		1		TEM		1	i	TEM				1								
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			1	ı	į	i	- 1	!										1		
				- 1	l		- 1	i	- 1	3 2										
	#	ایا	ایا	ļ		DISCHARGE	1			POSITION C INDICATOR	9			22		7 2	2			
	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	1	_	8	9 1	i		POSITION	BEARING TEMP.	逋	9.	PRESSUR	9 4	OT USS	DISCHARG	ᆲ	2 1	
TIME	ž	22	2 5	₹ .	5	音	COMD.	≖	Ð	Ö Z	BEARU TEMP.	LEVEL	TEMP.	1 a 1	MOTOR AMP S.	SUCTION PRESSURE	<u> </u>	OIL	REFR. LEVEL	COMMENTS
300	· · ·	37°	374	50	-1		0.7				. 71									
90	16.2	370	1314	50	43	5.8	92.3		88		136	3,5	128	19	95					
100		370	744	50.	43	3.8	72.3		88		136	3.5	128	19#	95					
200	1611	370	7/6	49.9	43	5.6	92,2		88		135	3.5	127	18#	94			<del></del>		
<b>30</b> 0		37.	748	49.9	43	5.6	92.2		88		V35	3/5	127	18-1	94					
400 500		37	7/8	49.8	45	6	95,8		88		135	3,5	128	18 17	94					
600	16 "	38	7-	31	4/3	7	016		92		136	3,5	128	20#	94			<u> </u>		
MARI			لا								11.20	<u> </u>	1100	ω4	MECHAN	C'S SIGH	ATURE	- / -	لــــــــــــــــــــــــــــــــــــــ	
70C		136	7.	50	42	7.1	17		43		136	7.4	<del>1 : 2 x -</del>				17	Hy	4	
800		44	10	50	45	1	47		93		1/2/	3"	130	20	129	ļ	<b></b>	<u> </u>	<u> </u>	
900	76.5	34.	/-	51	495	71	97		92		136	30	135	25	123			<del> </del>		
٥٥٥		37	/-	51	42	65	95		90		136	30	130	20	123			<del>                                     </del>		
100		137	1,"	5	42	615	95	-	91		1756	3"	130	90	110					
<u> 200</u>		37	<del>  - /:</del>	<u> 52.</u>	43	45	23		91		1/36	2/	1/20	90	110					
400		13°	1	35	77	7-1	95		89	-	137	3.	130		97	<del></del>		<del> </del>		
MAR	KS	1.7.8-	<del></del>		<del></del>	12:1				<u></u>	1/3/	1-2	1.30	20		C'S SIGN	ATURE	<del></del>	لبريا	
500	1 //-	1370	7	75 3.	443	7	96		95		1123	13-	130	120	<u> </u>	,		<u>  W</u>	<u>(ملعه</u>	Con.
600			1	33	1-/3	1.6		$\overline{}$	92	<del>  X</del>	1/27	3	125	20	125		<b></b>	├	-	
700				53.	43	7.1	46	_/\	93.5	12	133	3	130	20	123	<del></del>	<del></del>	<del> </del>		
800		36.	3/4	525	427	6.9			90.		136	3	129	20	114			1		
900		36	3/4		•/2	6.3	715		97		1736	3	725	795	101					
00		137	3/7			15.6	93	<u> </u>	900	1	1136	3	128	195	1.00					
200			+ /	51.6		4.6	92		390		1.624	-	<del>  ///2</del>	1/9	99			<u> </u>		
EU A		<u> </u>				1.2			1.1.7	-	1134	номини	1/29		HECHA	टिंड ग्रेटा	ATURE	<u> </u>		
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HIT H	<b>C</b> arvie	ا بر.								Al	R COND	HINDIT	G LOG								8-9-	94
			COLER				CONDE	SER				COMPRI	SSOR				PUR	GE		WATER	MAKE UP (READ	
	GPM					GPM						QII										,,,,
•				WATE TEM	tA P.			WAT													. USED	_
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	2	001	DISCHARGE	COND. TEMP.	Ŧ	оит	POSITION CAP. INDICATOR	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	HOTOR AMP &	SUCTION PRESSURE	DISCHARGE	LEVEL OIL	REFR. LEVEL	Temo		res
2300	11,5	370	1-	€1. €	45	6	92		92		157	415	132	حرت ا	(1)					S /	R S	
400		31.	10.	51.5	43	6	n		92		137	41,5	132	70	110		<del></del>	<u> </u>			49 32	5
0100		37.	1"	3115	43	6	9.2		92		157	4.4	132	7.0	110			<del>                                     </del>	-		49 81	5
0200		137.	13	51.3	43	6.	92.5		91.5		157	4,5	132	20	110						49 80	
0300	16.5	37°	1	51,2	43	4	92.5		21.5		137	4.5	132	20	109				_	41,9	99 20	5
0400	16.5	373	1 "	51	43	5,5	42		40		157	4,5	132	70	107					41.3	48,5 70	5
2500		310	1/4	31	43	3,2	71.5		90		157	4,5	172	20	106					4115	48.5 80	
1EMAR		370	1.0	57.5	43-	15	10	<u> </u>	90		157	4.5	132	20	112				Ł.	41.5	48 80	
								·			<b>.</b>				MECHAN	IC'S SIGN	<u> </u>	161	1	,		
07%C		35.5	1"	51	43	5	90		91		1/59	415	130	20	/25			V	<u> </u>	41	8 80	5
0 800		136	1.	1.5/3	143.	5.6	90		93		150	4.5	136	20	45					41	48 8	
0900		137	Tu	53	43	1 - S	57		90		1.153	4.5	120	30	128					142	SD 2	7 6
1000		13/2	1 10	153	4.	_	90		90		17.59	14.5	130		122					42	50 96	人て
1100		1.36·		578	425		9.5		90		1/57	415	130		140			<u> </u>			49 92	/_
1200		34	1 1 1 1	539	42	3.5	92	<b> </b>	3		1/59	13.2	130	135		<b></b>		<u> </u>			49 92	6
400			1 / 11	33+	43	13	90	<del></del>	93	<b>├</b> ──	1/59	4.5	130	20	116	<b></b>	<u> </u>	<del> </del>	<u> </u>	425	51 90	
TEMAR		1, 1,1	<u> </u>	1,00,	<u> 47.</u>	1-2	1. L	-	1.19.	<u> </u>	1634	1.713	11 30	1 00	MECHAN	टिश अवस	NTURE	<u>ب</u> ــــــــــــــــــــــــــــــــــــ	٠	42 +	51+ 91	6
1.00	<del> </del>	13.5	1 7	1 200	177	-1 7			-	+	1			,				<u>, l</u>	لماد	km		
iso		37	f / //	53.5			942	<del>-\-</del>	95	غهجإ	159	-77	1/30	20	130	Ь—				41		Z.
160		37	<del>  -/</del>	53	1-42	13.5		<del>  Y</del>	947	1-7-	1/2	1-75	1/30	120	1/2 5	—	<b></b>		<b></b>	· <i>L/)</i>		2 6
170		134	<del> -/</del>	1 200	42:	_	929		93	<del>                                     </del>	150	17F	1.7.2.		130		<u> </u>	┞—		-//		1/
180		137	<del>  ',  </del>	39	173		90	<del>                                     </del>	94	ļ	1,50		1/3/	20	115	<b> </b>		<u> </u>	<b></b>	41.5		10
140		137	<del>                                     </del>	53.	- 3	3 5.7	92	<del></del>	93.		1/5		130		100			<del> </del>	<u> </u>	41.5		10 6
500		1-35	<del>                                     </del>	33,	93	1 6.2	93	<del> </del>	91	<del> </del>	159		1/3/	120	100		-		<del>  </del>	72		69
21 <i>0</i> 220		1-34	<del>                                     </del>	1 53	4/2			-	905		157	2,7			100					1/-		5/9
E CO		7.		77	حتسا	21.27	1.2		- 72	-	-L-L-Z-L	HUNNIN		ستنسا		ाट <u>इ</u> उट	NATURE	ــــــــــــــــــــــــــــــــــــــ		72		<u>,                                    </u>
1												1	21/14				B	ma			TONNAGE PER	SHIFT

77	carr									Al	R COND	HIONIN	G LOG								DAT	-6-9	<i>4</i> .
	GPM	C	COLER				CONDE	NSER				COMPR	ESSOR				PÜF	GE.		W.	ATER MAKE		
	GP <b>M</b>				i	GPM						01	L							Ì			
				WAT:				WAT													2400 GAL. US	ED	
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	¥	out	DISCHARGE	COND. TEMP.	H	оот	POSITION CAP.	BEARING TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR AMPS.	SUCTION PRESSURE	DISCHARGE	OIL.	REFR. LEVEL		СОММ		
300	16-	37°	l"	10	4/5	5	90	80	XX		153	314	135	154	70			<del>                                     </del>	-	03.	- YES	77%	D √ ≤
400	16.	320	- L"	4/1	43	5	میه	70	22		132	7/4	135	154	70					103		-///	
2100	Her	27°	Vu	4/	W3	_ ح_	90	70	27		151	3/4	135	151	69								
200	16-	370	1"	47	42.3	.5	90	80	88		131	3/4	134	15#	70		L						
300	16.7	37'	-12	47	42.2	5	90	70	88		152	714	134	154	70								
98	1/2 -	320	-	47	42	5.6	92	80	<del>89</del>		152	78/4		15#				<u> </u>					
600		350		47.5	42	5.6	92,5	70	91,5		152	3/4		S#₹   3#₹	49		<b> </b>	<u> </u>					
MARK	3			2/12			1 1 2/3	خمب	1773		151	7/4	1 3 7	1 3 6	MECHAN	C'S SIGN	ATURE	<u> </u>	<u> </u>	<u> </u>			
2700		371		46	7.											IC'S SIGN	C.R.	St	4				
3 800	16.5	37	<del></del>	42.	41.9	- Pr	92	33	88		1/ <u>\$</u> }	1/2	/33	13	30								
2900		31	7.7	43	73	-3	97	<del>\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </del>	28		1787	1/3	1/32	1-45	75		<u> </u>	<u> </u>					
000	16.7	47	7=	48-	वर	5.5	92	91-	28		164	145	1775	1-46:	32		<del> </del>			173	س رئي	RLL	Or
1100	16,5	37	1	48	42	16	92	80	88		1/55	1/2-	135	1/9	40					65	60	76	57
200	16,5	:37	14	44	43	69	441	8/	90	-	1/5/2	72	732	14.	93	<del> </del>	<del> </del> -			<b>├</b> ──			
300		33	727	149	142	6.5	992	81-	92		1757	72	732	1/4	100		<del> </del>	1	<del>                                     </del>	<del> </del>	<u>·</u>		
400		31	13	49	92.	1_7_	95	31 -	192		751	1/2	133	16	105	<b> </b>	<del> </del>	<del>                                     </del>	<del> </del>	<del>                                     </del>			
EMARI	(\$															C'S SIGN	ATURE	1.1	17	<u> </u>			
1500	16.5	42	. /	49	73	17	96	181	192	<del></del>	1/5/	1/2	1.7 Z	177	767			MP	<u> </u>	**			
	16.5	72	1	49	43	1 7	46	81	93	<del></del>	131	1/2	137	177	108	├		<del>                                     </del>		122			
	16,5	42		149	43	7.3	97	81	93		1/5/	1/2	132	116	108	-	<del></del>	<del> </del>	<del> </del>	75	61	42	ک
1800	16.7	42	1	149	43	7	196	81	97	1	131	1/2	137	16	103		<del>                                     </del>	<del> </del>	<del>                                     </del>	<del> </del>			
1900	169	41	1	48	73	7	93	81	92		151	1/2	132	1,6	103	<del> </del>		+	<del></del>	<del> </del>			
5000	17	41		48	142	6.5	44	8.1	91		151	1/2		16	101	<del>                                     </del>	<del>                                     </del>	$\vdash$	<del>                                     </del>	<del> </del>			
2100		40	1.7	47	42	6.5	94	81	91		131	1/2		10/6	90	1		<del>                                     </del>	<del> </del>				
	1 169	39	<u> </u>	46+	141	133	191	80	89-		131	1/2	137	176	83	रिड इंटर	<del> </del>	1	<del>                                     </del>	1			
REMAR	(2	•										HOMMIN	GTIME		MECHA	रिट इ होटा	TURE			····	TON	NAGE PÉR	SHIFT
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WRAMC FORT 367

<u></u>	Š ca	mer								Al	R CONDI	TIONIN	G FOC							9-6-94
			OOOL ER				CONDE	SER				COMPR	ESSOR			- 1 1	PUR	GE		WATER MAKE UP (READING)
	GPM					GPM						011	L.							
•				WATE				WAT												2400
				Ī			Ì													GAL. USED
TIME	SUCTION	REFRIG. TEMP.	REFRIG. Level	×	OUT	DISCHARGE	COND. TEMP.	3	out	POSITION CAP. INDICATOR	BEARING. TEMP.	LEVEL	TEMP.	PRESSURE	MOTOR AMPS.	SUCTION P RESSURE	DISCHARGE	OIL. LEVEL.	REFR. LEVEL	COMMENTS
300	No-	38.	· w	49	43.5	5.2	92		76		134	75.7	124	17	72			<del> </del>		<u></u>
400	No	380	we.	49	43	5.3	220		25		134	3.	126	17	77	$\neg \neg$		<del>                                     </del>	<del></del>	
3100	No.		VV	49.	4/3	5.2	92		85		134	3.	126	17	77.				$\vdash$	<del></del>
200		38°	in	48.5	43	5.5	92		86		133	75 1	126	17	74					
2300		380	m	48.3	43	3.5	92		86		133	3"	ne	174	74					
2460			· n	48	18.80	5.6	92		87		132	3.	126	17#	73					
S	V6:		in	4/8	42.7	5.6	92		४९		トント	31	26	174	7.3					
DI AR		137.	1h"	49	43	6.2	94		87	<u></u>	134	34	126	18#	73					
															MECHANI	C'S SIGH	ATURE	SKI	1_	
3700			1/2	48	41.5	6.5	95		89		134	2.5"	/2 X	17	86			7		
0 800			1/2	48+	42	نطسا	93		१न		104	2.5	12.1	17	75			T		
2900		138	113	49	43	65	95		2,8		134	2.5"	128	17	185					
1000		38	314	50-	434	6.5	95		११		139	2.5	128	17	85					
1100		38	317	_	42	6	93	-	88		134	als.	108	1.73	90					
1200		138	3/4	151	44		93		Χc		134	7.5	128	17	90					,
300		138	74	51	44		43		88				129	18	100					
400	<i>۱<u>۱ ال</u>ا</i>	138		151	141	6.1	94		99	<u> </u>	163	2714	121	18	100					
				4							,				MECHAN	IC'S SIGN	MTURE	1	whi	
150	0 14	37	1. /	51	74	4	93		171	· ·	136	3	130	20	110			1-1	$\sim\sim$	<del>-</del>
160	0 16	31	III	51	44	615	94		57		136	3	131	20	112			<del> </del>	<del>                                     </del>	
170	d 161	37	17	50	73	15.5	94		88		134	3	131	20	112			<del> </del>	<del>  </del>	
180	0 17	37	17	130	93	7	97		87		136	.3	131	20	411					
190	d 17	36		149	42	6,5	96		88		136	3	130	7.	111			+	├──┼	<del></del>
200	0 160	37	1	49	42	6	93		87	1	134	3	130	20	110	<del> </del>		<del> </del>	╀┈╌┼	
210	0 16.	365	IL	149	72	7.5	92		87		136	3	130	Zo	95			+	<del>                                     </del>	
220	0 76.	37	11	49	42	5.5	92		87-		136	3	130		13		<del> </del>	+	<del>├──</del> ┼	
REMAI	RICS									Creame 1	-	PUNHIN	S TIME	**************************************	<b>ИЕСНАЯ</b>	ट इ इरहर	ATURE	<u></u>	لحسك	TOHNAGE PER SHIP
ı												l			ŀ	IT				12 TO 8

#6	carr	ier								Al	R CONDI	HINOIT	G LOG							CATE	-6-9
			COL ER				CONDE	NSER				COMPRI	ESSOR			*****	PUF	RGE		WATER MAKE L	
	GPM					GPM						011					-				
		• [		WATE				WAT												2400 GAL, USE	
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TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	*	100	DISCHARGE	COND. TEMP.	z	OUT	POSITION CAP	BEARING. TEMP,	LEVEL	TEMP.	PRESGURE	MOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. LEVEL	Тетр	errs /
2300	16.1	37°		50	44	4.9	89		88	_	156	50	134	19#	77			├──	<del> </del>	S R	97/
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0500	ا طا	37°	=	50	45,5	4,6	88		88		157	5 4	134	194	73				Ī	42 48	40
0300		270		50	43,5	4.5	88	<u> </u>	88		137	5,	V34	197						we us	20
0400	16"	370		49	43	4.4	88		87		157	5 "	134	194		<u> </u>	L	1		UZ 47	89
500		7,70		50	17	4.4	40		37	<del> </del>	157	5'	134	704				<u> </u>	<u> </u>	ur un	38
O 700	17"	36.		49	42	5.1	91-		90		1/5%	54	732	. 26	MECHAN SO	IC'S SIGH	ATURE,	Sty	-	40 44	92
0 800		36		49.5	42	5.5	9 1		90.		754	5.	132	20				<del>                                     </del>	<del>                                     </del>	405 42	33
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1800		39	1/2	23	43	7.5	96	<del> </del>	95	+	138	+	132	20	119	<del>                                     </del>	<del> </del>	<del> </del>	<del> </del>	42 50	86
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2200	3 17	368		31	423	C	193		92		157	3_	132		100	1	<del>                                     </del>	+	<del> </del>	48	<u> </u>
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400	47		34	97	40-	1/1/2		君	84		BSC	14	1/5		85								
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000			FULL	48	42	114		12	8		380	FUIL	115	80	81					<del></del>			
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340			Full	48	712	117	<del> </del>	73	83		BS6		LS	36	82		<del> </del>	<del></del>					
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1600	48	<del>                                     </del>	FUN	48	42	114		74	82	<del></del>	B15.61	E	115	80	83			+	10	DB	سره _	rett	Dr
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NIT NA	#	/-								All	CONDI	HINOIT	G LOG								27/20	18-9
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305		-	1	tia	42	1//00	=	70	80		1.11	17	144	10	185	<b></b>		<u> </u>				
400			1/3/X	1//	10	160	-	120	88	=	454	77	<del>1///-</del>	150	125		<del> </del>	<del>                                     </del>	ļ		·	
EMARI	Ki 4)	l==	17-222	77	14/_	1700		. — — — — — — — — — — — — — — — — — — —			109		1117	LBU	MECHAI	101 3161	NTURE	1-5	eur	19-		
500	44		FULL	49	42	109		72	1 Y		TSG	1/2	1111	84	83	T	_	1-7			OR R	# .D
600	44		EUL1	44	142	109		72	80	I	756	1/2	111	84	83	1	1	1	<del>  //</del>		8 90	
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5500		<u> </u>	FUIL	148	142	101	حــــــــــــــــــــــــــــــــــــــ	172	15		15%	1/2	110	84	74							
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WRAMC FORM 347

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TIME	SUCTION	REFRIG. TEMP.	REFRG. LEYEL	ĸ	оит	DISCHARGE	COND.	Ŧ	out	POSITION CAP. INDICATOR	BEARDIG TEMP.	LEVÉL	TEMP.	PRESSURE	LIOTOR AMP S.	SUCTION PRESSURE	DISCHARGE	TEVEL OIL	REFR. LEVEL		СОММЕН	rrs	
ळव	16.5	36-	10	50	U 2	Ç##	92	76	ЯΫ́		150	2.5	142	16#.	94					DB	WK	RH	DE
400	16.5	36.	1"	50	42	6#	વય	76	88		150	2.5	142	16#	94					560	530	90%	5
100	16.5	37°	11	50.	42	5,4	92	76	87		151	2.5	142	16#	92								
200	16,5	370	1-	50	42	5.9	92	76	87		151	2.5	142	16#	93		ļ						
300		33"	1.	51	42	5.9	92	76	87		131	2.5	143	16#	100		ļ						
400		38,	1"	51	42	6 XX		76	87		151	2.5	14/3	164	100			<u> </u>	<u> </u>	ļ			
200	16,3	36°	17	50,5	4/3	5 4		75	86	ļ	150	2.5	143	16-4	106		<b>!</b>	<u> </u>	<u> </u>	ļ			
600 EMARK	- 2 طا	36°		50.5	143	4.9*	90	75	<b>8</b> 5	<u></u>	150	2.5	13/3	16#	104	1025161	ATILIPE	<u> </u>	<u> </u>	<u> </u>			
LMARK	•			_			A				<b>.</b>					رجسم	25	the	/				
700	16	.7.7_	7	12	43	3	(8,)	77	LKY	~	110	L3	1.45	18	770			1					
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7900	Ib.	45	J	5	1114	1.4	T9X	80	100		150	13	145	18	150					, , ,	/		
000	16	1	5/A	V F#	2/1	4CV	197	175	87		1770	3	1747	<u> </u>	90	<b></b>	<u> </u>	<u> </u>					
100	16	72	<del></del>	152	143	1	190	7.5	185	=	1172	1.3	17(2)	18	90	<u> </u>	L		L				
200	<u> </u>	140	<del>                                     </del>	17.7	1 (4)	15.	90	21			1110	13	147.2	ZX.	100			<u> </u>	<u> </u>		<u> </u>		
300	16	144	<del>                                     </del>	196	1 2%		190	1-35	1 ()	-	11/11/	13	147	<del>K.</del> ₩-	1700	<b>├</b>	<del> </del>		-				
400	1/2	1.37	1	10~	1 4 4	مسلما	1 912	1.7/	1 * -		1/1/2	3	1041	<u></u>	MECHA	विद्याद्वाद	NTURE	<del></del>	Hen	21			
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	16.1	28	1.1	52	436		क्द	73	1.44	1	132	2.5	143	16	107	T	1		$\vdash$	ļ.			·
700		38		53	4315	5	90	.75	87		156	7.8	143	14	107		T	1		1		***********	
1800		38		53	435	13	190	75	83		152	23	143	14	105	1		1		T		'4	
1900		78		53	43	15.	90	75	83		132	2.5	143	15	100	1	1	1	<del>                                     </del>	1		<del></del>	
2000		128	17	52	43	1.5	90	77	173	1	132	2.3	143	16	9.7	$T^{-}$	1	T		1			
2100	116	38		52	43	5_	3-9	17	183		152	ひら	1143	16	90	T	T			1			
5500	714	33	17	52	43	3	1.89	14	82		152	200	पिउ	16	182	I	T		1	1			
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WRAMC FORM 367

NIT HE	RRIEL	. 1		•					•	Al	R CONDI	HINDIT	G LOG								DATE	18-	au
CH	RKIRI		DOLER		1	*******	CONDE	ISER		~ ~		COMPRI	ESSOR	-			PUR	GE .		WAT	ER MAKE UP		
Ī	GPM				G	PM		: -				010	_								2400		:
	*.			WATI TEM				WAT							.						GAL. USED	· · · · · ·	_
TIME	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL	×	00.7	DISCHARGE	COND. TEMP.	z	our	POSITION CAP.	BEARING TEMP.	LEVÉL	TEMP.	PRESSURE	MOTOR AMPS.	SUCTION PRESSURE	DISCHARGE	OIL	REFR. LEVEL		СОМИЕМ	TS	
1																				5	R	5	R
300		37	1/4	51.5	44	5,2	92		<u> 73</u>	ļ	136	1-5	134	20#	84			<del> </del>		45	49	75	6
400	16,5	31 °	314.	51.5	44	5.2	92		83		136	1.5	134	2011	83		ļ	<del> </del>		4/3	49	75	62
100		37.	7714	31.5	44	5.3	92		72	<b></b>	136	1.5	134	نصخنا	93	<del> </del>	ļ	<del> </del>		43	49	74	-6:
200		37°	314	51.5	41	513	92		82		136	115	134	19,5	92	-		├		4/3	ન મુ	74	6
300		580	72	52-	44	6*	93,9		P3		132	10.5	135	113.8	9/3		ļ — —		ļ	4/3	49	73	41
400		28	7/8	52-	44	6 #	93.9		<u> 73</u>		137	1.5	135	19.8	93		<del> </del>	<del> </del>	├	4/5	પવ	73	6.5
2000	16,2	38.	748	31,5	43	6-24	93		84		137.		134	20#				<del> </del>	<del> </del>	42	49	72.	6
LAR		37°	7/4	51.5	42	6-#	93	با	X-2	<u> </u>	1137	1-5	1129	20#	122	101 8168	A TOPEZ	<u></u>	<u> </u>	42	49	71	5
LBAR													<u> </u>			IC'S SIGH	Z X	11-		4			
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₫ <b>የ</b> 00	1/6_	3.8	10	1 or	42	$\Delta \Sigma$	90		185	<u> </u>	137	1 2-	140	20	120	<u> </u>				42	49	Zb	- 7
2900	1/6		12		45	b	91		20	<u> </u>	1/38	12	1140	21	125	1				(4.)	.52	70	6
000		$\Phi RI$	12	- 19	C44	6	191		90		1.38	1.2	1740	1 2 2	123	1				43	37	40	
1100		38	12	1	46	6	91		190	1	1737	12	1747	120	12-1	I	ļ	1		43	_5/	80	E
1500	-	138	1/2	4 37-	04	0	195	$\vdash$	190	1-	1121	12-	LYE	1 7/	121	Ī	<b></b>	<u> </u>	ļ	93	<u> </u>	1	6
309		1.50	176	علاله	1 44	<u>_</u>	95		912	1	1126	1-2-	1798	20	$\mathcal{W}$		<del> </del>	<del></del>		43	50	85	6
1400		13/	100	<u> </u>	1 44	LO.	191		190		131	7-	T7 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	120	VV	HIC'S SIG	1			42	00	$ZI^{-}$	- 6
PAME	K3				٠,										MECHA	MIC-2 210	HATURE		2	enry			
1600	116	38	3/4	53	143/2	5.5	151	T	184		138	115	1/34	120	1/7	T	7	<del>                                     </del>	70	47.5	50	84	5
160		38	374	33	43 72	4	92		84		138	103	134	20	118	$\top$	1		1	43.5	50	74	4
170		38		33	41/2	6	72		84	1	138	1:3	134	120	118	1	T	1		4313	<0	85	- 37
	016	38	1	53	431/2	5,5	171	T	84	1	138	115	134	20	1114	1	1	T		43,5	50	8.	20
	a 16	3 }		35	43	3	91		83	T	138	ى	134	20	90	_	<b></b>	<del>                                     </del>	<del>                                     </del>	43	4 4	82	20
	0 14	38	1/2	34	43	3	91		83		138	165	134	20	81	T		1		43	48	82	60
	016	38	1/2	33	43_	3.	191	L	183		138	115	134	ZO	87	1	$\overline{}$		T-	43	47	23	61
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WRAMC FORM 347

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4	SUCTION	REFRIG. TEMP.	REFRIG. LEVEL		<u> -</u>	ğ	COND.		=	# 3	BEARING TEMP.	LEVEL	s i	PRESSUR	5 4	5 8	DISCHARG	<u>ಪ</u>	ᆲ				
1	₽	2 2	2,1	£	20	ă	8 =	Ŧ	5	] 2 ≚	3E 1E	<u>"</u>	TEMP	2	MOTOR AMP 5.	2 2	8	OIL	REFR. LEVEL		СОММЕ	ENTS	
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100	42		1210	Ų1	111	1777	$\overline{}$	71	57	-	150	155	110	X10	86					37	30 /	5/ 7p	$\overline{\Sigma}$
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200	31	<del>-</del>	EX			1200		70	ZX	-	DM	VI	110	82	80								
600 MARK			MANO.	4	14/	VD		بحا	17/		1714	V	1/10	XU	YD								
٠.,							L				1 6				MECHANI	C'S SIGNA	TURE		0/01	w			
700			Ful!	98	97	1//3		20	76		TSG	18	110	82	100			1	7	1			
800			Full	48	4/	1/7		<u> 22 -</u>	78		TSG	186	110	82	700					DB	11.40	RH	
900 200	_		Full	49	4/	1/7		<u> </u>	78		73G	1/8	110	83	/00					55	10 B	— <del>8</del> /⊤	Ę
60			FALL	49	3/	1/6		23	80		756-	78	110	32	112						70		
	41		Full	44	3/-	139	-	<u> </u>	82		7. Ca.	78	110	83	115								
40	73		Full	49	4/	23		<del>-55</del>	83		75G	18	YOX	83	120								_
	42		Full	49	47	124		34	ठेड		756	18	108	83	130								
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200			Full	49	47	122		74	82	<del></del>	T36	1/8	108		123								_
70a			FULL	44	47	122		14	22		736	1/8	108	82	123			$\vdash$		.45 7		89	4
800	42		Full	30	41	123		7.3	81		756	1/2	109	F2	124			<b>  </b>					
100			FUIL	49	41	122		14	82		736	1/8	102	82	723								
aoa			FUI!	49	4/	119		73	80		136	1/8	108	82	122			<del>                                     </del>	—-				
	45		Full	48	141	116		7,3	79		736	1/2	109	87	94	<del></del>		<del></del>					
	42		Full	47	41	1117		71	78		136	118	109		83	$\rightarrow$							
MARK	•											PUNHING	TIME	-	HECHAN	C S SIGHA	TURE				TONE	GE PER SH	HET
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			COOLER		***************************************	1	CONDE	NSER			-	COMPR	ESSOR				Piz	RGE				14 -	
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	5	ತ	ا ئ			DISCHARGE				POSITION C	9	١.		=	[]	포역				i			
9	SUCTION	REFRIO. TEMP.	REFRIG. LEVEL		<b>-</b>	ğ	COND.		-	POSITION	BEARING TEMP.	LEVEL	TEMP.	PRESSUR	MOTOR AMP S.	SUCTION	DISCHARG	늴	اتتنج	i			
TIME	₹	2 2	23	Z	e.	ä	8 =	I	OUT	운포	3 =	"	⊭	2	9.3	3 4	\$ i	OIL	REFR. LEVEL		СОМИ	NTS	
<b>500</b>	75	3/	7	114	43	1.5	40	100	40		709	-	720	-2	110			<b>├</b>					
00	12	36	1 .	4	43	6	un	XID	an		124	3	122	12	116	-		+		117	47	10.	_/-
00	17	36	1	44.	42	O.	40	KD.	an	-	144	.3	137	16	110			<del> </del>		4/25	1/2	70	-4
900	17	34	/_	49	1/3	2	90	80	$q_n$		149	_3_	137	16	110			-		172	175	20 20	-6
90 80	1/2	36	-4-	49	144	1 J	23	80	97		144	1.2	131	16,	1111					123	27	50	- 7
200	15	36		77	<del>***</del>	8	3/2	×0	40		149	3	13.5	149	100					117	Uh	71	
00	17	36	1	44	42	6	9/6	40	45	_	160		137	1/2	95					12	46	7/	6
MARK	3					1.2	1-1				<del>- 1 7 7</del>	- 12	1107	1///		C'S SIGN	ATURE	1		12	45		6
200	75	36	7	51	92 <	1 4	99	80	91		1000	7 -	738	<del></del>	1700			<del>- &gt;//</del>	MI	2			
700	12	36	7	51	43.5	4	88	NO.	90		148	3.5	138	<del>- 75-</del>	130			-	-6	43	79	75	
100	72	36		.51	44	4	88	80	89		150	2,5	738	176	120					43	49	7.5	(
200	16.5	37	4_	52	45	19	88	78	89		178	2.5	738	76	123			1		43	4 4	75	
٥٥		37	<del>-/</del>	52	75	145	89	SO.	90		149	2.5	1.38	16	125					43	485	73	
200	16.5	75	-	52	135	5	20	X	93		148	3.2	1438	16	125					43	50	72	
66		38	1	50	43	5.3	3%	80	90		150	2.5	1/3 X	76	135			-		43.5	50	72	
IRAN			<u> </u>	-2122	1.13	1975					1790	147	LYSK	1/6.3	130	C'S SIGN	ATURE	<del> </del>		74	SD	7/	
oc.	16	38	7	<b>₹</b> ₹	45	14	88	79			<del></del>				<u></u>			$K_{\perp}I_{\parallel}$	lan	sio!			
200		38	<del>- /</del>	5.3	45	4.5	84	19	85	<u>-</u>			438	47	124					44	50	72	.3
-		38	+	53		43	89	79	87		150	2.5	138	+7-	127			-		. 43,5	50	7.3	5
	16:1	38	<del>                                      </del>	53	44.5	3	40	79	27		150	2.5	138	17	127	-		╌┤		44	<u> </u>	1/	<u> </u>
100		38	17.	53	443	3	40	74	88		156	2 5		17	126					44	رک	74	6
000		38	I	52	44	5.5	91	74	78		150	_	13 8	14	93			<del>  </del>		44	31	80	_
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20 <u>0</u>	16	38		51	144	6	1.92	77	89		130	ZS	137		तिख					44	30	76	6
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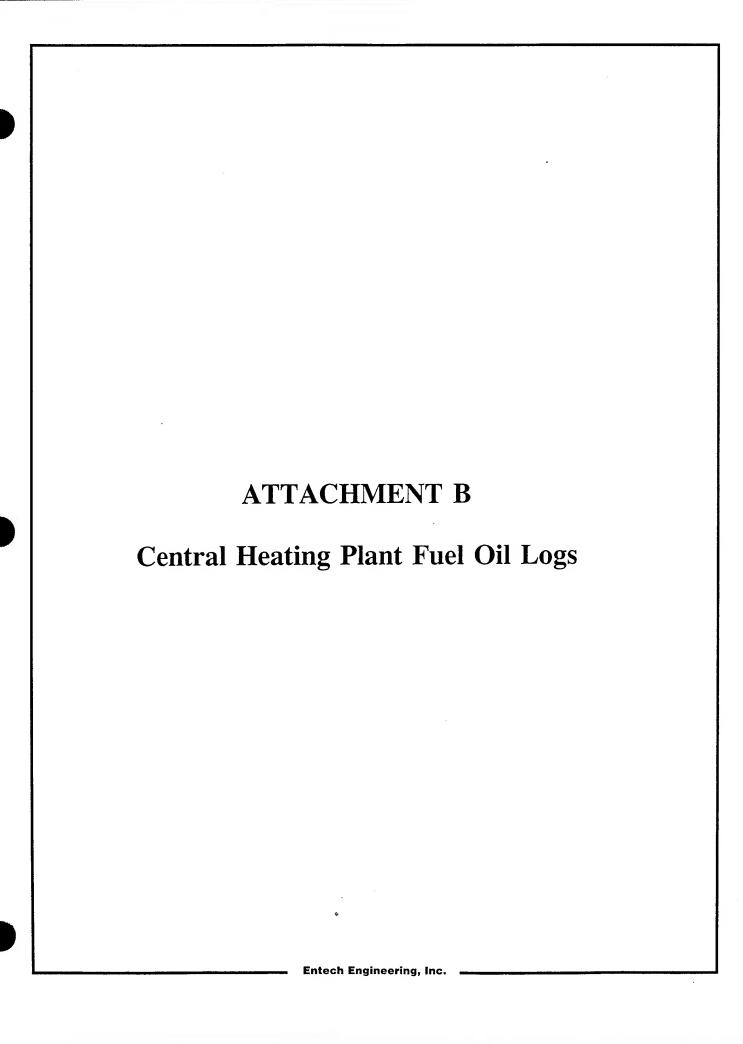
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11.00	(0.3 OA)	\$1.07	5218	50(11)	2109Pm	62794	16-28-94	
DaTe	6-259	262594	6.26.9	6-3394	$\sim$	SAM	1:33 Pm	
Evaporator Pressure		15	51	15.	75/	15	/5	7 9/
	7	4,5	>	5	5.9	3	5.5	14
	15	h1	<b>+</b> -	15	h/.	HI	61	+851
Condenser Witer In	85	52	8.0	80	83	83	80	12.70
	76	83	\$	8)	87	. \$7	85	e h 2
Chill Water o	144	42	43	141	43	43	26	. 27
Water	15	33	47	hh	64	84	24	0 1 7.
	WII IJA	80 00	14.19 DB	14.c4 P.D	17.47	80 211	11.7 P.K	100
1							-	77.77
j			,				·	Croff Fai
Sum p oil Temp.	163	1.60	159		591	= 1/0 (	165	1640
Boaring	121	138	135		135	, [	134	600
Water Treatment					. (			
Rena	RILM	No	010	一个生		N. 7	Rn	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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TIM 6.	12:53Pm	13016	M82110 Am	11:42Pm	27.40 Pin	542/	51.60.c/ 5	1115 Am
	46-6-6	7-7-4	17-8-94	7-8-94	1-9-6-6	7-9.94	19-01-6	15 07-2
Evaporator Pressure	9/	9/	1)6 "	9/	16 "	(5	,, 2'51	P.
Condenser-Pressur	<b>%</b>	9,0	11.5.7.	6	一种。	6	(b=0)	6,3
	4/	5/1	7:	14	14.74	4.1	华加	\$1
	98	65 ×	240.	;∆ ⊗	Z.	8 8	° 5'/8	7.8
	92	93	910	44	a 68	46	. 98	87
<i>C</i> /??	hh	43.5	- 44°	45	440	4.4	HHO	43
1117	5.0	505		2	.01	. 1	50°	4 8
	EC II/M	80 001	16 66°	75 85	27	7 C 2 H	11.71 DK	
ReFrine	Full	75	11/1/	Full	Fall	FULL	110-1	Chist
Sum poil Temp.	59/	166	166°	170	1690	\$1.20	165°	167
Boaring Oil	138	(31.	1630	138	1370	137	1340	135
Treatmen				. (				en engan
Remarks	Bri	15 apr 20 51	Rtig 5pm 1-18.6,	E.	*131.47	070	L. K.S.	asin.
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7100	10/0/b	4.38 P.	1.	11500	-	2340	00 90	1:00 Pm
Date	1-10-94	1-11-941	17-11-94	P1 12 14		7-1294		7-13-94
0	,	W 1/1	7/	31 //	//	, 7/	# 11	-
Traporalor Hessure	1/2	0/	2	ر د	9)	0,	3/	9
Condenser Pressure	0	n #	9	業	9	3	6.1	, , , , , , , , , , , , , , , , , , , ,
J.O = 7:0	h/.	11	1.1	14.2	•	51	77. 9	÷
Condensor Witer In	00	° 18	0 &	160	ļ	50	0/8	83
340	50	. h8	85	इ.प. ः	84	5	\$ 2 c	9.8
Y 6M 11:1)	43.5	43	43		43	3	, h. 17	23
Water	29%	21/17	24	11/1/2		3	(.)7	64.
	KU UW	80 00	N.B. 10.8	D.C. 17.41	14 CC CC CC CC CC CC CC CC CC CC CC CC CC	113 DB	E.P. 10 15	
RoFringrant Lovel	Full	FULL	Full		Full	199	FULL	This 4
no oil Ter	79/	1.623	765	197	170	470	1383	139
Boaring Oil	96%	134°	135	350	134	135	121	124
WITCH Troatmon		,	M		A	XX		Hi
Rena	K.LM	1 L. R		· · · · · · · · · · · · · · · · · · ·				
		•.						i.



Conected Copy	MAIN	SECTION &	HG PLANT
ONTHLY DULK PETROLEUM ACCUUNTING SUMMARY MALTER REED ARMY MEDICAL CENTER WASHINGTON, D.C. 20012	FOR PERIOD OF	- BER	1997
STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9120 - 727 - 4365 12 FUEL OIL	1	7140 - 747 - 4251 P6 FUEL CIL
2. Opening Inventory	MODERA		TO THE CIT
b. Tetal Receipts	788,558		
c. Total Issues			
د Closing book balance (lines a+b-c)	P. (2) ===		
c. Closing Inventory	788,558		
f. Actual Monthly loss (lines d-e)			
g. Maximum allowable loss (lines a+o×.005)	$\varphi$		
b. Excessive Loss (lines i-g)	Ø		
S .	$\varphi$		

NATURAL GAS USEAGE IN THERMS = 315,411:0

CENTRA HEATING PLANT BLOG # 15

MALTER REED ARMY MEDICAL CENTER	FOR PERIOD OF	ر د در در در در در در در در در در در در	
WASHINGTON, D.C. 20012	NOVEME	IER 1993	<b>L</b>
STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 747 - 4363 12 FUEL OIL	9140 · 247 · 4257	1140 - 247 - 4251 16 FUEL CIL
a. Opening Inventory	788,558		
b. Total Receipts	· Ø		
c. Total Issues	7		
∠ Closing book balance (lines a+b-c)	788558		
c. Closing Inventory	788558		
1. Actual Monthly loss (lines c-e)	· (h) ·		
c. Plaximum allowable loss (lines a+ox.005)	Ø		
h. Encessive Loss (lines f-g)	· Ø		· · · · · · · · · · · · · · · · · · ·
KS	$\varphi$		

NATURAL Gas USEAGE IN THERMS = 436,591.1

CENTRAL HEATING PLANT BLOG #15

12-2-95 Dennis Pender BLE, DLT, LEASER BLD

NONTHLY DULK PETROLEUM ACCUUNTING SUMMARY MALTER REED ARMY MEDICAL CENTER WASHINGTON, D.C. 20012	FOR PERIOD OF	ECEME	BER 1991
STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	7140 - 747 - 4363 12 FUEL OIL		
a. Opening Inventory	788,558		
b. Total Receipts c. Total Issues			
د Closing book balance (lines a+b-c)	Merch		
c. Closing Inventory	788,558 .788,558		
i. Actual Monthly loss (lines d-e)	(y) :		
g. Plaximum allowable loss (lines a+o×.005)	$\phi$		
b. Excessive Loss (lines 1-p)	. Ø		

NATURAL GAS USEAGE IN THERMS = 558.003.1

CENTRAL HEATING PLANT BLOG #15

- RLDG#15

1-6-93 Dennis Pender RIR Pet Lealer

	والمتبيع مسجد والهادرة والبطارية فالاعتباط	F- 1/2-
FOR PENIDD OF	- H <u>N</u> UARY	. 1993
9 140 - 747 - 4365 r2 FUEL OIL	9140 - 247 - 4259 #5 FUEL OIL	\$140 - 747 - 4251 #6 FUEL CIL
788,558		
. 0		
Ø		
788,558		
.Q ·		
Ø		
· Ø	•	
	9 140 - 747 - 4365	788,558  788,558  788,558

·NATURAL GAS USEAGE IN THERMS = 576.607.7

CENTRAL HEATING PLANT BLDG #15

NONTHLY DULK PETROLEUM ACCUUNTING SUMMARY  *** ********************************	FOR PERIOD OF	BRUARY	1993
STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 747 - 4365 42 FUEL OIL		
a. Opening Inventory	788,558		
b. Tetal Receipts	28,004		
c. Total Issues	54,227	,	
∠ Closing book balance (lines a+b-c)	762335		•
c. Closing Inventory	762,335.		• •
f. Actual Monthly loss (lines d-e)	· (d) ·		
g. Plaximum allowable loss (lines a+o×,005)	Ob 1		•
Encessive Loss (lines i-p)	· 0		
:KS	$\varphi$		

NATURAL Gas USEAGE IN THERMS = 578,825.7

CEMTRAL HEATING PLANT BLDG # 15

3-3-93 PO POLICE OF INVENTIONS DEFICER

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY	FOR PENIDO OF	ورسای موجه بهجامه در درستان با کله کنا ۱۳۳۳ سند	F-U
WASHINGTON, D.C. 20012	J. m	ARCH	1993
TOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9 140 - 747 - 4365 #2 FUEL OIL		\$140 - 247 - 4251 #6 FUEL CIL
a. Opening Inventory	762,335		
b. Tetal Receipts	· Ø		, .
c. Total Issues	50914		
d Closing book balance (lines a+b-c)	71111211		
e. Closing Inventory	711,421		
i. Actual Monthly loss (lines d-e)	Ø ·		
g. Plaximum allowable loss (lines a+o×.005)	0		
b. Excessive Loss (lines f-g)	·Ø		

NATURAL GAS-USEAGE. IN THERMS = 574,816.1

CENTRAL HEATING PLANT BLDG :#15

4-2-93 Dennis Brain Blk Pet Jane Bedy #15

MONTHLY BULK PETROLEUM ACCUUNTING SUMMARY MALTER REED ARMY MEDICAL CENTER WASHINGTON, D.C. 20012	FOR PENIDO OF	PRIL	1993
STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 747 - 4365 12 FUEL OIL	9740 - 247 - 4259 #3 FUEL DIL	1140 - 747 - 425
a. Opening Inventory	711,421		
b. Total Receipts	· Ø		
c. Total Issues	Ø	g	
د Closing book balance (lines a+b-c)	711,421	•	
e. Closing Inventory	711421	1	·. ·
1. Actual Monthly loss (lines d-e)	Ø		
c. Plaximum allowable loss (lines a+ox.005)	Ø		
h. Excessive Loss (lines f-p)	· CA		· · ·

MATURAL CAS USEAGE IN .THERMS = 398,648.6

CENTRAL HEATING PLANT BLAC #15

NONTHLY DULK PETROLEUM ACCUUNTING SUMMARY  MALTER REED ARMY MEDICAL CENTER  WASHINGTON, D.C. 20012	FOR PERIOD OF	MAY 199	73
STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 747 - 4365 #2 FUEL OIL	9140 - 247 - 4207 #5, FUEL OIL	1140 + 747 + 4251 16 FUEL DIL
a. Opening Inventory	711;421		
b. Tctal Receipts	. 0		
c. Total Issues	T of		
د Closing book balance (lines a+b-c)	71/1/5/		
c. Closing Inventory	711,421		
f. Actual Monthly loss (lines d-e)	00		
c. Plaximum allowable loss (lines a+bx.005)	Ø		
Excessive Loss (lines 1-p)	·Ø		
PKS.	4		

MATURAL CHAS USEAGE IN THERMS = 254, 131.2

CEMTRAL HEATING PLANT BLOG # 15

6-2-93 Lennis Lender Ble pet Sander

MONTHLY BULK PETROLEUM ACCUUNTING SUMMARY MALTER REED ARMY MEDICAL CENTER WASHINGTON, D.C. 20012	FOR PERIOD OF	UNE I	143
STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9 140 - 747 - 4345 r2 FUEL DIL	9140 - 247 - 4259	9148 - 227 - 4251 16 FUEL CIL
a. Opening Inventory	1.711,421		
b. Total Receipts	. 0		
c. Total Issues	Ø		
د Closing book belance (lines a+b-c)	711,421		
c. Closing Inventory	711,421		
f. Actual Monthly loss (lines d-e)	Ø		
g. Maximum allowable loss (lines a+ox.605)	Φ		•
h. Excessive Loss (lines f-g)	· Ø	•	

MATURAL GAS USEAGE IN THERMS = 197,049.6

CENTRAL HEATING PLANT BLOG #15

SIGNATURE, NAME AND EMARE OF INVENTONY DEFICER

7-13-93 Denne ferer BIX Pet &

BIK per fooder Blog #15.

MONTHLY BULK PETROLEUM ACCOUNTING SUMMARY	FOR PERIOD OF	900 (d. d. 1 ₁ , ( <u>1, 1)</u> ) ) ) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4) (4, 4)	
WALTER REED ARMY MEDICAL CENTER WASHINGTON, D.C. 20012	1	JLY 1°	793
STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9 140 - 747 - 4353 12 FUEL OIL	9140 - 247 - 4259 #5 FUEL OIL	\$140 - 247 - 4251 #5 FUEL CIL
a. Opening Inventory	1711,421		
b. Total Receipts	Ø.		
c. Total Issues	0		
∠ Closing book balance (lines a+b-c)	711,421	·	
e. Closing Inventory	711, 421		
1. Actual Monthly loss (lines d-e)	· Ø ·		·
g. Maximum allowable lost (lines a+o×.005)	Ø		
h. Excessive Loss (lines f-g)	· Ø	·	

NATURAL GAS USEAGE IN THERMS = 179, 446.1

CENTRAL HEIRTING PLANT BLOG #15

Dennis Person Ber, Pt, Juder Belg #15

8-3-93

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MONTHLY BULK PETROLEUM ACCUUNTING SUMMARY  MALTER REED ARMY MEDICAL CENTER  WASHINGTON, D.C. 20012	AUGU	ST 190	
	9120 - 227 - 4365	9140 - 247 - 4359	7140 - 727 - 4251
STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	\$2 FUEL OIL	#5 FUEL DIL	## FUEL CIL
a. Opening Inventory	711,421		
b. Total Receipts	· Ø		
c. Total Issues	$\phi$		
∠ Closing book balance (lines a+b-c)	711,421		
e. Closing Inventory	711,421		· .
1. Actual Monthly loss (lines d-e)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
g. Maximum allowable loss (lines a+b×.005)	Ó		
h. Excessive Loss (lines f-g)	· \$		

NATURAL GAS USEAGE IN THERMS= 184,884.9

CENTRAL HEATING PLANT BLDG-#15

SIEMATURE, NAME AND BRADE DE INVENTORE DEFICE

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MONTHLY DULK PETROLEUM ACCUUNTING SUMMARY MALTER REED ARMY MEDICAL CENTER	FOR PERIOD OF		
WASHINGTON, D.C. 20012	1 0 th	TEMBFR	1993
STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 747 - 4365	8140 - 247 - 4259	7140 - 247 - 4251
TO CONTROL NOW PROME NO PRODUCTS	12 FUEL OIL	#5 FUEL OIL	FO FUEL CIL
a. Opening Inventory	711,421		
b. Total Receipts	90994		
c. Total issues	2449		
د Closing book balance (lines a+b-c)	799,966		
c. Closing Inventory	799, 966		
1. Actual Monthly loss (lines c-e)	$\emptyset$	·	
g. Paximum allowable loss (lines a+o×.005)	$\phi$		
t. Excessive Loss (lines f-g)	·Ø	•	

NATURAL. CAS USEAGE IN THERMS = 195,611,1

CENTRAL HEATING PLANT BLDG #15

SIGNATURE, WAME AND GRABE OF INVENTONY DEFICER

10-6-93

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BLDG-#15

MONTHLY BULK PETROLEUM ACCUUNTING SUMMA WALTER REED ARMY MEDICAL CENTER	RY FOR PERIOD OF		
WASHINGTON, D.C. 20012	octo	bi-R 93	
STOCK MINDED AND ADDRESS AT THE OF THE	9140 - 247 - 4765	1	1140 - 747 - 425
STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	12 FUEL OIL	#5 FUEL OIL	16 FUEL CIL
a. Opening Inventory	799966	·	
b. Total Receipts . Blog 54 TANK 8-6 TRANEFOR FROM Blog 15-TANK 10-	2,869 2:33 5,201		
c. Total Issues	23456		
Closing book balance (lines a+b-c)	. 78/7//		
c. Closing Inventory	781711		
f. Actual Monthly loss (lines c-e)			
g. Plaximum allowable loss (lines a+o×.CO5)			
h. Excessive Loss (lines f-g)			

NOT. GAS USEAGE IN. + HERMS = 336600

Blog 15 HEAting Plant

SIGNATURE, NAME AND GRADE OF INVENTIONS OFFICER

11-2-93

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MALTER REED ARMY MEDICAL CENTER WASHINGTON, D.C. 20012	NOUL	Ember 9	
STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9 140 - 247 - 4365 12 FUEL OIL		9140 + 247 + 4251 #6 FUEL CIL
a. Opening Inventory	781711	·	
b. Total Receipts	.0		
c. Total Issues	3285		
∠ Closing book balance (lines a+b-c)	278 436	,	
e. Closing Inventory	278426		
1. Actual Monthly loss (lines e-e)		·	
g. Maximum allowable loss (lines a+b=,005)			
L. Excessive Loss (lines f-g)			-

RKS

NAT. GAS LISTAGE IN therms = 597,600

Bldg 15 Heating Plant.

HENATURE, WAME AND GRABE OF INVENTONT OFFICER

12-2-93

Joseph & Willi

FOR PERIOD OF		
-		
DECEMBER 1295		
9140 - 747 - 4365	9140 - 247 - 4257	5140 - 747 - 425
12 FUEL OIL	#5 FUEL OIL	FA FUEL CIL
778,426	,	
i3,788		
176,275		
615.939		
615,939		
	·	·
		•
	•	
	7140 - 747 - 4365 #2 FUEL OIL  773,426  13,788   176,275  615,939	#2 FUEL OIL #3 FUEL OIL  773,426  13,788  176,275  615,939

NAT. GAS USEAGE IN THERMS

315.873

BLDG.15-HEATING PLANT

SIGNATURE, MAME AND GRADE DF INVENTORY DEFICE

JAN.04,94

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JANUA	RY 94	<u> </u>
9140 - 247 - 4365	9740 - 247 - 4259	5140 - 727 - 2251
12 FUEL OIL	#5 FUEL DIL	16 FUEL CIL
615,939		
103,987		
484.065		
226,859		
226,859		
9,002	÷	
·	•	
	JANUA  91:0 - 2:7 - 2365  12 FUEL OIL  615,939  103,987  484,065  226,859	615,939 103,987 484,065 226,859

ARKS

NAT. GAS USEGAE IN THERM 123,810

BLDG.15 HEATING PLANT

SIGNATURE, NAME AND GRADE OF INVENTORY OFFICER

Feb. 8,94

Joseph S. Willi

WALTER REED ARMY MEDICAL CENTER WASHINGTON, D.C. 20012	FEBRUARY 94		
DCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 747 - 4365 r2 FUEL OIL	9140 - 247 - 4259 25 FUEL CIL	5140 - 747 - 4251 65 FUEL CIL
2. Opening Inventory	226.359		
b. Tetal Receipts	298,127		
c. Total Issues	293.066		
∠ Closing book balance (lines a+b-c)	231, 920		
c. Closing Inventory	231,920		
1. Actual Monthly loss (lines d-e)			
g. Plaximum allowable loss (lines a+ox.005)			
h. Excessive Loss (lines f-g)			

NAT.GAS USED IN THERM-

MONTHLY DULK PETROLEUM ACCOUNTING SUMMARY

290

RIDG IF HEATING PLANT

SIGNATURE. WAME AND GRACE OF INVENTORY OFFICE

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Joseph Haline

THLY BULK PETROLEUM ACCUUNTING SUMMARY  , KALTER REED ARMY MEDICAL CENTER  WASHINGTON, D.C. 20012	MA.	RCH, 1;	994 th
TOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 747 - 4365 12 FUEL OIL	9742 - 247 - 4257	T
Opening Inventory	2/2 6/0	,	
Total Receipts	212,919		
Total Issues	464,246		
Closing book balance (lines 2+b-c)	58,605 618,560	,	· ·
Closing Inventory			
ctual Monthly loss (lines d-e)			
laximum allowable loss (lines a+bx.005)			•
Excessive Loss (lines f-p)	• ;		· ·

Bldg 15 Heating Plant

MONTHLY DULK BETROLEUM ACCOUNTING SUMMARY MALTER RIED ARMY MEDICAL CENTER WASHINGTON, D.C. 20012	FOR PERIOD OF	IPRIL 9	4
STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 747 - 4365 12 FUEL OIL	9140 - 247 - 4257 #5 FUEL OIL	7140 - 227 - 2251 F6 FUEL CIL
a. Opening Inventory	619,560		
b. Total Receipts	· Ø		
c. Total Issues	2,290		
Closing book balance (lines a+b-c)	616,270		
e. Closing Inventory	616,270		
1. Actual Monthly loss (lines 6-e)		·	
g. Plaximum allowable loss (lines a+b×,005)			
h. Excessive Loss (lines f-g)			

NAt. CAS USAGE IN TherMS.
Bldg 15 Heating plant.

SIGNATURE, MANE AND GRABE OF INVENTIONS DEFICER

may 4, 94

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STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	12 FUEL OIL	+142 - 241 - 4357 .es FUEL OIL	1140 - 747 - 4251 16 FUEL CIL
. Opening Inventory	616,270		
Total Receipts !- I-Rom bloke 2	10,000		
Total Issues	2,2/3		
Closing book balance (lines e+b-c)	634,057		
Closing Inventory	634 057.		
Actual Monthly loss (lines e-e)			
Plaximum allowable loss (lines a+o×.005)			
Excessive Loss (lines f-g)			· · · · · · · · · · · · · · · · · · ·

NAT. GAS USA 96 IN Thermis 153,174

Bldy 15 Heating Plant

Junie 21,99

Joseph f. With

NUMBER AND NOMENCLATURE OF PRODUCTS	12 FUEL OIL	#5 FUEL OIL	1140 - 247 - 4251 16 FUEL CIL
Opening Inventory	624,057		
Total Receipts	. 9		
Total Issues	<i>345</i>		
Closing book belance (lines e+b-c)	623,812		
Closing Inventory	623,812		
Actual Monthly loss (lines d-e)		÷	
!laximum allowable loss (lines a+o×.005)	7		
Excessive Loss (lines (-g)		•	· · · · · · · · · · · · · · · · · · ·
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NAT. GiAS USAGE IN tHERMS 180158 Bldg 15, Heating Plant

7-6-94- SICHATURE, YAME AND CHASE OF INVE

STHLY DULK RETROLEUM ACCUUNTING SUMMARY  MALTER REED ARMY MEDICAL CENTER	FOR PERIOD OF	وموسط منه بحرمه ومركانه ها الماضح 	•
WASHINGTON, D.C. 20012	July	94	
STOCK KUUBED JUN KOUENE JAUAE DE BARRIETA	9120 - 727 - 4365	9740 - 247 - 4257	5140 - 247 - 4251
STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	12 FUEL OIL	#5 FUEL OIL	16 FUEL CIL
Opening Inventory	623,812	-	·
Total Receipts .	. Ø		
Total Issues	12,366		
Closing book balance (lines e+b-c)	611 446		
Closing Inventory	611,446.		
Actual Monthly loss (lines e-e)			
Maximum allowable loss (lines a+b×.005)			
Excessive Loss (lines f-p)	·		•

NAT. GAS. USEd IN HERMS. 16984 Blog. 15, HEATING. PLANT

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MTHLY DULK DETROLEUM ACCUUNTING SUMMARY MALTER REED ARMY MEDICAL CENTER	FOR PERIODOF	والوسطة المساورة والركانية في المساهدة المساورة المساورة المساورة المساورة المساورة المساورة المساورة المساورة 	
WASHINGTON, D.C. 20012	Thia.	74	
STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 747 - 4365 12 FUEL OIL	9140 + 247 + 4257 #5 FUEL OIL	\$140 - 747 - 4251
. Opening Inventory		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	#8 FUEL CIL
Total Receipts	611446 . d		
Total Issues	4		
Closing book balance (lines e+b-c)	611446		
Closing Inventory	611446.		
Actual Monthly loss (lines d-e)		·	
Maximum allowable loss (lines a+o×.005)			
Excessive Loss (lines (-p)		•	

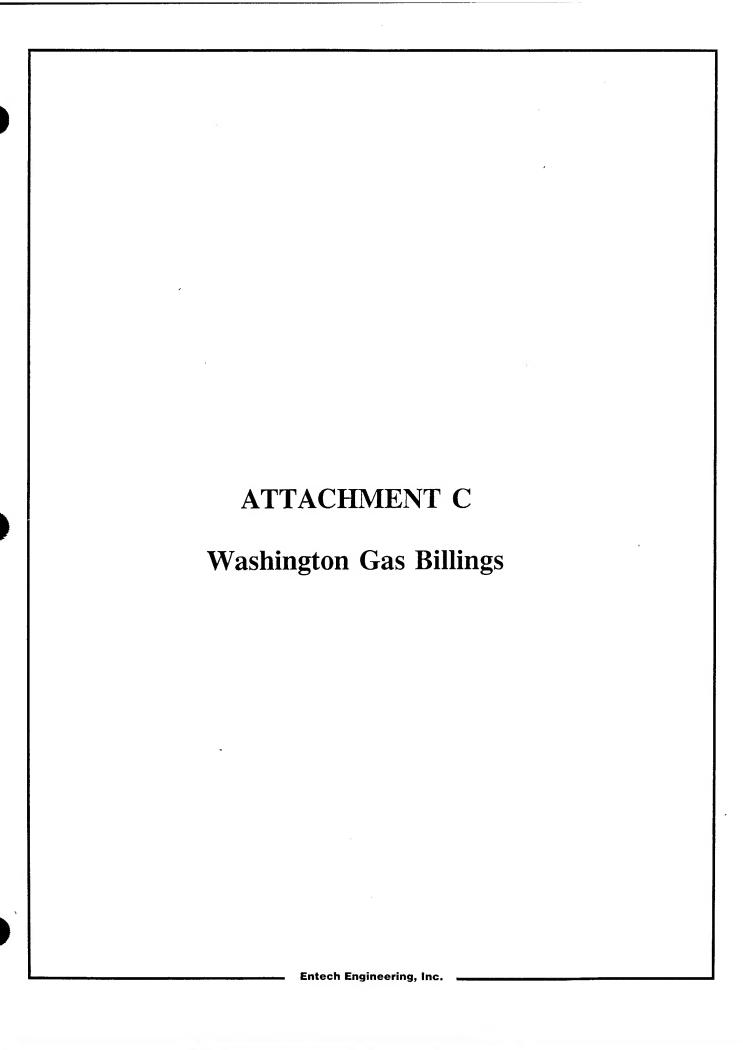
INS. NAT GAS USED IN THEXMS 17140 Bldg 15 HEATing Plant

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MITHLY DULK DETROLEUM ACCUUNTING SUMMARY  MALTER REED ARMY MEDICAL CENTER  WASHINGTON, D.C. 20012	SEP+	94	
STOCK NUMBER AND NOMENCLATURE OF PRODUCTS	9140 - 747 - 4363 #2 FUEL OIL	i	\$140 + 247 + 4251 #8 FUEL CIL
. Opening Inventory	611446	and .	
. Total Receipts .	47,782		
. Total Issues	Ø		
. Closing book balance (lines e+b-c)	659108		
Closing Inventory	659 228		-
Actual Monthly loss (lines d-e)		·	
Naximum allowable loss (lines a+bx.005)			•
Excessive Loss (lines (-p)	•	•	•

NAT. GAS. USEd in tHERM 2039. Bldg 15 HEATING

Oct. 12, 94/ Isichature wave procede or inventoris officer





Tilleonone: 1733) 750-1600

Flease Give Account Number

-SCOUNT NUMBER

0054-978507

WALTER REED ARMY MED CTR C/O ATTN HSHL-E BLDG OFF 6825 16TH ST NW WASH DC 20012

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AMOUNT DUE NO	)W- \$	299,311.46
AMOUNT DUE AFTER DATE BE	LOW \$	302,304.57
OVERDUE AFTER		DEC 3, 93

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT • MAKE CHECK PAYABLE TO WASHINGTON GAS

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BALANCE FROM PREVIOUS BILL CURRENT GAS USAGE - 300,468.0 THERMS @ \$ .365

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## Wasnington Gas District of Columbia Division

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rinase Galle Hoppunt Number

-12001-- 355 0054-978507

WALTER REED ARMY MED CTR C/O ATTN HSHL-E BLDG OFF 6825 16TH ST NW WASH DC 20012

 Flex Fund Conduction	-				
Fas Bill Fayment					
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MOUNTIQUE NOWE

\$ 204,004.48

AMOUNT DUE: AFTER DATE BELOW

\$ 206,044.52

OVERDUE AFTER

JAN 5, 94

TLEASE DETACH THIS STUB AND RETURN WITH PAYMENT + TAKE CHECK PAYABLE TO WASHINGTON GAS

ACCOUNT NUMBER					
ACCOUNT NOMBER		BILLING PERIOD	DAYS USED	DATE MAILED	SEADING DATE
0054-978503	OCT 28,	93 - NOV 30,	93 32	DEC 10, 9	93 DEC 30, 93
JURRENT	JURRENT FEADING	- PEVIOUS PEADING -	JAMETERED GAS LIGHT =	JOF OF THE	EAMS = TOTAL THERMS
READ BY COMPANY	5902000	5365000			021: 548,277.0

CHARGES FOR GAS SERVICE AT:

6825 16TH ST NW #BLRM

BALANCE FROM PREVIOUS BILL CURRENT GAS USAGE - 548,277.0 THERMS @ \$ .365

\$ 3,883.37 200,121.11

	EUDGET PLAN INFORMA	TION			
45 USED - S PERIOD	SED TO DATE	.NSTALLMENTS SILLED TO DATE	MOUNT DUE NOW	S	204,004.48
s	3	S	OUE AFTER JAN 5, 94	s	206,044.52



Washington Gas District of Columbia Division

OR YOUR RECORDS CHECK NO. _____ DATE. _____

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TAX DEDUCTIBLE WAFF CONTRIBUTION  $|S|_{\mathbb{R}}$ 

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

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4 TO: PUR(	ror use or this form, see AA 37-1, the proponent agency is OASA(FM)	gency is OASA(FM)				5 NOV 1993	PAGES
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t is reques	PURCHASING AND CONTRACTING OFFICER	OFFICER				W74KMR-3308-0601	
	It is requested that the supplies and services enumerated below or on attach	enumerated below o	r on atta	ached list be			
7 РИЯСН	PURCHASED FOR DIRECTOR, DPW			8. DE	DELIVERED TO BUTLDING	NG 15	9 NOT LATER THAN (Date)
he supplies nmediate vi irocurement	The supplies and services listed below cannot be secured through normal supply channels or other Army supply sources in the immediate vicinity, and their procurement will not violate existing regulations pertaining to local purchases for stock, therefore, local procurement is necessary for the following reason: (Check appropriate box and complete item.)	ed through normal supply e existing regulations per eck appropriate box and	channels rtaining to complete	or other Army supply local purchases for sto item.)	sources in the sck, therefore, local	10 NAME OF PERSON TO CALL FOR ADDITIONAL INFORMATION	11 TELEPHONE NUMBER
12. MEAN	12. LOCAL PURCHASES AUTHORIZED AS THE NORMAL MEANS OF SUPPLY FOR THE FOREGOING BY		13 REQUE	UISITIONING DISCLOS AND LOCAL PURCHA	13 REQUISITIONING DISCLOSES NONAVAILABILITY OF ITEMS AND LOCAL PURCHASE IS AUTHORIZED BY	FUND CERTIFICATION The supplies and services listed on this request are proc	J Derly chargeable to the follo
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	DESCRIPTION OF SUPPLY OR SERVICES	QUANIIIY	Š	UNIT PRICE	TOTAL COST		, ,
R. F.	rural G	ICE TO BLG DEC 1993					
v	SERVICE TO BE ON AN INTERRI 1,172,000 THERMS REQUIRED. NEGOTIATED PRICE PER THERM	UPTABLE RECOMM NOT TO	BASIS END EXCEED.			20. TYPED NAME AND TITLE OF 21 SIGNATURE CERTIFYING OFFICER MARGARET CORSILLO	RE CLO 22, DATE
					ESTIMATE	Certifying Officer, DEH	; !
<b>&gt;</b>	VENDOR: WASHINGTON GAS	LIGHT CO36	Δ.		\$427,780.00	23 DISCOUNT TERMS	
						24. PURCHASE ORDER NUMBER	
25 THE FC	THE FOREGOING ITEMS ARE REQUIRED NOT LATER THAN AS INDICATED ABOVE FOR THE FOLLOWING PURPOSE	L ATER THAN AS INDICAT	red abov	LE FOR THE FOLLOW	ING PURPOSE	26. DELIVERY REQUIREMENTS ARE MORE THAN 7 DAYS REQUIRED TO INSPECT AND ACCEPT THE REQUESTED GOODS OR SERVICES YES \( \begin{array}{c} \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \limits & \l	ND ACCEPT THE REQUES
					٠.٠٠	IF YES, NUMBER OF DAYS REQUIRED	
7 TYPED DFFICER R	27 TYPED NAME AND GRADE OF INITIATING OFFICER REGINA LARRABEE-GS-12	28 SIGNATURE			29 DATE	D NAM	36 DATE
30 TELEPP	TELEPHONE NUMBER 6-2491 ENERGY ENGINEER, DPW	Kguna	170	Xou in	1.5.93	HENRY J. HENL DIRECTOR	
TYPED DFFICER	31 TYPED NAME AND GRADE OF SUPPLY OFFICER	32 SIGNATURE			33 DATE	DIRECTORATE, PUBLIC WORKS	
					,		

Telephone (703 T30-1000

Please Give Account Number

-DOCUMENUMBER

0054-978507

WALTER REED ARMY MED CTR C/O ATTN HSHL-E BLDG OFF 6825 16TH ST NW WASH DC 20012

Entai adaak tué tu In Meu ta aautubate	Britaninin i Sandamad (v. 1900) 1977 - Di <del>lle B</del> ritanin
Fuel Fund Donation	Š
Gas Biii Payment	3
Total Payment	315/ -2/6

DILLOWSE DUE WHEN PERCEPED

AMOUNT DUE NOW	S	361,461.97
AMOUNT DUE AFTER DATE BELOW	\$	365,076.59
OVERDUE AFTER		FEB 4, 94

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT . MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	SILL	ING PERIOD	DAYS USED	DATE MAILED	EXT METER FEADING DATE
0054-978503	NOV 30,	93 - DEC 30, 93	30	JAN 13, 94	FEB 1. 94
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READ BY COMPANY	63240001	5902000		422,000 1.0	22 431,284.0
CHARGES FOR GAS SERVICE	E AT:	6825 16TH ST NW	#BLR	М	

BALANCE FROM PREVIOUS BILL CURRENT GAS USAGE - 431,284.0 THERMS @ \$ .365

\$ 204,043.31 157,418.66

	BUDGET PLAN	INFORMATION					1	363 464 65	=
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PLEASE RETAIN THIS PORTION FOR YOUR RECORDS • TELEPHONE (703) 750-1000

WALTER REED ARMY MED CTR C/O ATT HSHL-E BLDG OFF 6825 16TH ST NW #BLRM WASH DC 20012

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ACCOUNT NUMBER				G PERIOD			. DAYS	i	CATE MAIL	ED	NEXT	METER NG DATE
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COMPANY					_	·				n.u2	, me <b>n</b> ,	680.0
CHARGES FOR GAS SE	RVICE AT	. 68c	25 1		Т	NW #I	BLRM					
LATE PAYMENT				ILL ESSED						\$	361,46	
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	Washington	Gas	CHECK NO		_	DATE	

-2000/707 -ECK **S** _

ACCOUNT NUMBER 0054.978507 *02

PLEASE PETAN THIS PORTION FOR YOUR RECORDS TELEPHONE (703) 750-1000

	PURCHASE REQUEST AND COMMITMENT For use of this form, see AR 37-108: the proponent agency is USAF	MMITMENT ponent agency is U	AC.	PURCHASE INSTRUMENT NO.		REQUISITION NO. DA	рате 4 Jan. 1994	PAGE OF
	Purchasing and Contracting Officer	THRU:			FROM:	W74KMR 4004-0602	002	
		It is requested that the		supplies and services enumerated below or on attached list be	low or on att	ached list be:		`
P.O.	PURCHASED FOR Director, DPW			DELIVERED TO Bldg.	15		NOT LAT	NOT LATER THAN (Date)
Arm regu follo	The supplies and services listed below cannot be secured through normal supply channels or other Army supply sources in the immediate vicinity, and their procurement will not violate existing regulations pertaining to local purchases for stock, therefore, local procurement is necessary for the following reason: (Check appropriate box and complete item.)	secured through nd their procure t, therefore, localete ten.	normal supply c ment will not vi	hannels or other olate existing i necessary for the	NAME AND TI	NAME AND TELEPHONE NO. OF PERSON TO CALL FOR ADDITIONAL INFORMATION	RSON TO CALL FOR	A ADDITIONAL
	LOCAL PURCHASES AUTHORIZED AS THE NORMAL MEANS OF SUPPLY FOR THE FORE. GOING BY	REQUISI ABILITY IS AUTHO	TIONING DISCLO	REQUISITIONING DISCLOSES NONAVAIL— ABILITY OF ITEMS AND LOCAL PURCHASE IS AUTHORIZED BY	The supplies	Fund Certification The supplies and services listed on this request are properly chargeable to the following allotments, the available balances of which are suffi-	Fund Certification sted on this request are pro	operly chargeable which are suffi-
	EMERGENCY SITUATION PRECLUDES USE	OF REQUISITION	ON CHANNELS F	OF REQUISITION CHANNELS FOR SECURING ITEM	cient to cover	cient to cover the cost thereof, and funds have been committed	I funds have been c	committed.
H	DESCRIPTION OF SUPPLY OR SERVICES OF SERVICES	TINITATION	ESTI	ESTIMATED	ACCOUNTING	ACCOUNTING CLASSIFICATION		AMOUNT
			Unit Price	Total Cost				
	REQUEST NATURAL GAS SERVICE T FOR PERIOD 1 JAN. 94 THRU 28 GAS SERVICE TO BE ON AN INTER 1,275,000 THERMS REQUIRED. R NEGOTIATED PRICE PER THERM NO	THRU 28 FEB. 1994. AN INTERRUPTABLE BASITRED. RECOMMEND THERM NOT TO EXCHED.	5 BASIS ED.		4 garage	centifying Officer Margaret Corsillo Certifying Officer,	LE OF SIGNATURE  10 Margar  cer, LPW	utloraile,
	VENDOR; WASHINGTON GAS LIGHT CO.	co355		ESTIMATE \$452,625	DISCOUNT			Ŷ
	,				PURCHASE ORDER NUMBER			
				-	DELIVERY SCHEDULE		,	
4 H H E E	THE FOREGOING ITEMS ARE REQUIRED NOT LATER THAN AS INDICATED ABOVE FOR THE FOLLOWING PURPOSE	FER THAN AS INC	SICATED ABOVE	FOR	Approve	Approved by commanding officer or his designee	icer or his designee	
T O	44	SIGNATURE	Horaide	DATE	TYPED NA COMMANI DESIGNEE		SIGNATURE	
φΑΤΕ	E TYPED NAME AND GHADE OF SUPPLY OFFICER	SIGNATURE		-	DIRECTOR,	HENKY J. HENLEY, P.E. DIRECTOR, DPW		( MESIM

DA FORM, 3953

PREVIOUS EDITIONS OF THIS FORM WILL BE USED UNTIL EXHAUSTED.

Washi, Jton Gas District of Columbia Division
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Please Give Account Number

*SCOUNT NUMBER 0054.978507

6825 16TH ST NW #BLRM WASH DC 20012 WALTER REED ARMY MED CTR C/O ATT HSHL- E BLDG OFF

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una.	sneck	ine	C'	and	in:	cate	amou	nt. :7	√où
-	2 -	. ^	•					nook :	oox.

Fuel Fund Donation	S	
Gas Bill Payment	S	
Total Payment	S	

ILLS ARE DUE WHEN RENDERED

AMOUNT DUE	NOW	\$87309.01	
AMOUNT DUE AFTER DATE BE	LOW	\$	
OVERDUE AFTER	A	PR 4, 1994	

4. .

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT . MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	BILLING PERIOD			DAYS USED	DATE MAII	ED	NEXT METER READING DATE
0054.978507	FEB 1,94	MAR 3,94		30	<u> </u>	;	
JURRENT READING METHOD	CURRENT READING	PREVIOUS . FEADING	UNMETERED GAS LIGHT	=	CCF OF GAS USED	THERMS PER CCF	= TOTAL THERMS
READ BY CO	6713000	6480000	<u> </u>  -  -	2	233,000	1.019	237,427.0
CHARGES FOR GAS SEE	RVICE AT: 6825	16TH ST	NW #BL	RM			
CURRENT GA	S USAGE-23	37,427.0	THERMS	ΑT	\$.3550	·	,286.59 ,574.19

	UDGET PLAN INFORMAT	ION		
AS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE	AMOUNT DUE NOW	s 87309.01
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FOR YOUR RECORDS
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PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

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**4CCCUNT NUMBER** 

0054.978507 <u>*</u>02

WALTER REED ARMY MED CTR C/O ATT HSHL-E BLDG OFF 6825 16TH ST NW #BLRM WASH DC 20012

Donation	S	
Gas Bill Payment	\$	
Trtal Pivment	S	
	. 1898:	
AMOUNT DUE NO	w \$	504.034.78
AMOUNT DUE AFTER DATE BELC	s \$	50A 12L 72

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PLEASE OFFICE THE STORY OF STREET, TWO THE PROMETERS OF TAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	<u> </u>	BILL	JNG PERIOD				DAYS USED	DA	TE MAILE	D		NEXT M	
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READ BY	. 671300	10	64800	ן םם	<u> </u>		-						427.0
CHARGES FOR GAS SEI		125	lhTH S	SI	NW.	<b>BL</b>	RM						
BALANCE FROM LATE PAYMENT CURRENT GAS OVERPAYMENT	T CHARGE	A S	SSESSE		THER	RMS	a	žE. \$	550			, 141 , 281	4.54 4.60 5.59

IF YOU HAVE ANY QUESTIONS, PLEASE CALL US AT (703)750-1000 WE ARE EASIEST TO REACH TUESDAY THROUGH THURSDAY AFTER 10 AM.

	BUDGE	T PLAN INFORMATION			<del></del>	
GAS USED THIS PERIOD		COTAL GAS I SED TO DATE	INSTALLMENTS BILLED TO DATE	AMOUNT DUE NOW	, 5	504,034.78
· \$	İs	S		AMOUNT DUE AFTER APR 4, 94	s	508,126.72



	FOR YOUR FECORDS
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ACCOUNT NUMBER 0054.978507 *02

PLEASE RETAIN THIS PORTION FOR HOUR RECORDS

	Washington Gas District of Columbia Division
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eas cieas	e Give A Count Number	
ACCOUNT NUMBER:	0054-978507	

Fund. Check the pox and indicate amount. If but not previously meased an amount, as not sheek eox.

Fuel Fund
Donation

Gas Bill
Payment

Total
Payment

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SILLS ARE DOE WHEN HENDERE	JE WHEN RENDERED.
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AMOUNT DUE NO	Ψ
AMOUNT DUE AFTER DATE BELO	216,153.00 \$ 218,314.53
OVERDUE AFTER	MAY 5, 94

WALTER REED ARMY MED CTR C/O ATT HSHL-E BLDG OFF 6825 16TH ST NW WASH DC 20012

# PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT . MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	81	LLING PERIOD	DAYS USED	DATE MAILED	,	NEXT METER READING DATE
0054-978507	MAR 3, 94	- APR 1, 94	29	APR 14, 9	4 M	AY 2, 94
CURRENT READING METHOD	CURRENT READING	_ PREVIOUS _ READING _	UNMETERED =	CCF OF X	HERMS PER CCF	= TOTAL THERMS
READ BY COMPANY	7277000	6713000		564,000	1.022	576,408.0
CHARGES FOR GAS SEF	RVICE AT:	6825	16TH ST NW	#BLRM		

CURRENT GAS USAGE - 576,408.0 THERMS @ \$ .375

\$216,153.00

GAS USED	BUDGET PLAN INFORMA	TION		
THIS PERIO		INSTALLMENTS BILLED TO DATE	AMOUNT DUE NOW	\$ 216,153.00
\$	s	\$	AMOUNT DUE AFTER MAY 5, 94	\$ 218,314.53



FO	R YOUR RECORDS
CHECK NO.	DATE:
	AMOUNT OF CHECK \$
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PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

FOURCHASE REQUEST AND COMMITMENT  For use of this form, see AR 37-1: the proponent agency is OASA(FM)  A TO:  Purchasing and Contracting Officer  It is requested that the supplies and services enumerated below or on attached list be  7 PURCHASED FOR Director, DPW  7 PURCHASED FOR Director, DPW  8 DELIVERED TO Intermediate vicinity, and their procurement will not violate existing requisitions pertaining to local purchases for stock, therefore, local procurement is necessary to the following reason (Check appropriate box and complete item.)  12 LOCAL PURCHASES AUTHORIZED AS THE NORMAL  13 LOCAL PURCHASES AUTHORIZED AS THE NORMAL  MEANS OF SUPPLY FOR THE FOREGOING BY  EMERGENCY SITUATION PRECLUDES USE OF REQUISITION CHANNELS FOR SECURING ITEM  14 15  HEM DESCRIPTION OF SUPPLY OR SERVICES  16 UNIT PRICE  17 BESTIMATED  18 ESTIMATED  19 LOCAL PURCHASE IS AUTHORIZED  19 LOCAL PURCHASE IS AUTHORIZED  10 LOCAL PURCHASE IS AUTHORIZED  11 15  12 LOCAL PURCHASES NONAVAILABIL  12 LOCAL PURCHASES NONAVAILABIL  13 REQUISITIONING DISCLOSES NONAVAILABIL  14 15  15 BE DELIVERED TO THE COLOR OF REQUISITION CHANNELS FOR SECURING ITEM  16 LOCAL PURCHASE IS AUTHORIZED  17 BE STIMATED  18 LOCAL PURCHASE IS AUTHORIZED  19 LOCAL PURCHASE IS AUTHORIZED  10 LOCAL PURCHASE IS AUTHORIZED  10 LOCAL PURCHASE IS AUTHORIZED  11 15  12 LOCAL PURCHASE IS AUTHORIZED  13 REQUISITION OF SUPPLY OR SERVICES  16 DELIVERED TO THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF	AND COMMITMENT  Dioponent agency is OASA(FM)  Thracting Officer  d services enumerated below  tor, DPW  not be secured through normal supp will not violate existing regulations pr reason (Check appropriate box an  RRIZED AS THE NORMAL  REGOING BY	s THRU:	THRU:		10 MAR. 1994	PAGES '
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12 ME/ 15		ily channels or artaining to lot of complete its	other Army supply sources in the sal purchases for stock, therefore, am.)		10 NAME OF PERSON TO CALL FOR ADDITIONAL INFORMATION	1 TELEPHONE NUMBER
15		13 REQUISITION OF ITEMS AND I	SITIONING DISCLOSES NONAVAILABILITY ND LOCAL PURCHASE IS AUTHORIZED		FUND CERTIFICATION  The supplies and services listed on this request are properly chargeable to the following automorphism and services listed on this request are properly chargeable to the following and have been committed.	chargeable to the following cover the cost thereof, and
15	EMERGENCY SITUATION PRECLUDES USE OF REQUISITION CHANNELS FOR SECURING ITEM	ANNELS FOR	SECURING ITEM	91	ACCOUNTING CLASSIFICATION AND AMOUNT	
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929,000 THERMS REQUIRED. RECOMMEN NEGOTIATED PRICE PER THERM NOT TO		D EXCRED.	ESTIMATE		MARGARET CORSILLO  That guarable Certifying Officer, DPW	Court "Murig
VENDOR: WASHINGTON GAS LIGHT CO.	N GAS LIGHT CO3756	30	\$348,3	\$348,375.00	DISCOUNT TERMS	
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25 THE FOREGOING ITEMS ARE REQUIRED NOT LATER THAN AS INDICATED ABOVE FOR THE FOLLOWING PURPOSE	JIRED NOT LATER THAN AS INDIC.	ATED ABOVE	FOR THE FOLLOWING PURPOS		26 DELIVERY REQUIREMENTS ARE MORE THAN 7 DAYS REQUIRED TO INSPECT AND ACCEPT THE REQUESTED GOODS OR SERVICES YES NO NO NO NAMER OF DAYS REQUIRED	CCEPT THE REQUESTED
						- 1
27 TYPED NAME AND GRADE OF INTIATING OFFICER REGINA LARRABEE GS 12	S 12	ئر	53		ED NAME AND GRADE 35 SIGNATURE DVING OFFICER OR	36 DATE
30 TELEPHONE NUMBER ENERGY ENGINEER, I	DPW Kran	2/1/c	Janahu 3	5-10-74 III	NLEY, F.E.	July 3/10/4
31 TYPED NAME AND GRADE OF SUPPLY OFFICER	PLY 32. SIGNATURE		33	DATE	WORKS / FUBLIC / / / / /	<b>-</b>
					)	



Please Give Account Number

ACCOUNT NUMBER: 0054-978507

WALTER REED ARMY MED CTR C/O ATT HSHL-E BLDG OFF 6825 16TH ST NW

WASH DC 20012

∸una.	check the box	e to the Washington Area Fuel and indicate amount 2.37 Empunt do not onto: 221
	Fuel Fund Donation	S
	Gas Bill Payment	S
	Total Payment	s 158,437.13

BILLS ARE DUE WHEN PENCERED.

AMOUNT DUE!	ow \$ 374,590.13	
AMOUNT DUE AFTER DATE BE	оw ^{\$} 378,336.03	
OVERDUE AFTER	JUNE 6, 94	

#### PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT . MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	В	ILLING PERIOD	DAYS USED	DATE MAILED		NEXT METER READING DATE	
0054-978507	APR 1, 92	- MAY 2, 94	31	MAY 13,	94	JUNE 1, 94	
CURRENT READING METHOD	CURRENT READING		METERED =	CCF OF A	HERMS	= TOTAL THERMS	
READ BY COMPANY	7690000	7277000		413,000	1.023	422,499.0	
CHARGES FOR GAS SE	RVICE AT:	6825 16	CH ST NW	#BLRM			

BALANCE FROM PREVIOUS BILL CURRENT GAS USAGE - 422,499.0 THERMS @ \$ .375 \$216,153.00 158,437.13



	BUDGET PLAN INFORMATION			374,590.13
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE	AMOUNT DUE NOW	S
s	\$	\$	AMOUNT JUNE 6, 94	378,336.03 S



	FOR YOUR RECORDS
CHECK NO	DATE:
	AMOUNT OF CHECK \$
	TAX DEDUCTIBLE WAFF CONTRIBUTION \$;



Please Give Account Number

0054-978507 ACCOUNT NUMBER

> WALTER REED ARMY MED CTR C/O ATT HSHL-E BLDG OFF 6825 16TH ST NW WASH DC 20012

Typu wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount. If you have previously pleaded an amount, do not check box. Fuel Fund \$ Donation Gas Biil S Payment To:al S Payment

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BILLS ARE DUE WHEN RENDERED.

C C	,
	122,746.27
ANGENT DUE: S	123,973.73
OVERDIE: AFILH	JULY 6, 94

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT . MAKE CHECK PAYABLE TO WASHINGTON GAS.

	ACCOUNT NUMBER	SILI	ING PERIOD	DAYS USED	DATE MARLED		NEXT METER READUNG DATE	
	0054-978507	MAY 2, 94	- JUNE 1, 9	4 : 30	JUNE 13,	94	JUNE 30, 94	
	TOPREUT CONTEM DVIDAGE	CUMPENT _ PEADING	PREVIOUS + U	NMETERED GAS LIGHT	CISTISED X	gea COF	- TOTAL THERMS	
-	READ BY	8017000	7690000	3	27,000	1_025_	335-175-0-	
-	· CHARGES FOR GAS SER		6825	16TH ST NW	#SLRM	<u> </u>		
-3 <del>-22</del>				•				

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43

----- CURRENT GAS USAGE - 335,175.0 THERMS @ 5 .365 INCREASE IN DC GROSS RECEIPTS TAX - .333%

\$122,338.88 407:39

GAS USED TOTAL GAS INSTALLMENTS AMOUNT DUE NOW S Y-HS PERIOD USED TO DATE BILLED TO DATE	
	_122,746-27_
S S S S CUEAFTER JULY 6, 94 S 1	123,973.73



FOR YOUR RECORDS
 CHECK NO DATÉ:
AMOUNT OF CHECK \$
TAX DEDUCTIBLE WARF CONTRIBUTION \$

17031.750-1000

			ā	PURCHASE INSTRUMENT NO	BEQUISITION NO.	DATE	PAGE	J OF
	PURCHASE REQUEST AND COMMITMENT For use of this form see AB 37-108; the proponent agency is USAFAC	COMMITMENT Onent agency is US				Мау	1994	1 PAGES
10	Purchasing and Contracting Officer	THRU: P	a	Budget Branch	FROM: ENG SE	SERV W74KMR 4132 C	0090	
		It is requested that the su	at the supplies and	pplies and services enumerated below or on attached list be:	w or on attached list be:			
PURC	PURCHASED FOR Director, DPW		DEFIVE	RED TO Bldgs 15		NO.	NOT LATER THAN ( <i>Date</i> )	(Date)
The Fegul	The supplies and services listed below cannot be secured through normal supply channels or other Army supply sources in the immediate vicinity, and their procurement will not violate existing regulations pertaining to local purchases for stock, therefore, local procurement is necessary for the following reason: (Check appropriate box and complete item.)	ecured through no d their procureme therefore, local p	rmal supply chann nt will not violate or rocurement is nece	tels or other existing essary for the	NAME AND TELEPHONE NO. INFORMATION Regina 202-576	NAME AND TELEPHONE NO. OF PERSON TO CALL FOR ADDITIONAL INFORMATION REGINA M. Larrabee 202-576-0315	R ADDITIONAL	
	LOCAL PURCHASE AUTHORIZED AS THE NORMAL MEANS OF SUPPLY FOR THE FORE-	REQUI	REQUISITIONING DISCLOSES NONAVAIL- ABILITY OF ITEMS AND LOCAL PURCHASE	SES NONAVAIL- OCAL PURCHASE		Fund Certification		
	GOING BY	IS AU	THORIZED BY		The supplies and servic to the following allotme	The supplies and services listed on this request are properly chargeable to the following allotments, the available balances of which are suffi-	re properly cha s of which are	rgeable suffi-
	EMERGENCY SITUATION PRECLUDES USE OF REQUISITION CHANNELS	OF REQUISITION CH	IANNELS FOR SECL	FOR SECURING ITEM	cient to cover the cost	cient to cover the cost thereof, and funds have been committed.	en committed.	
		TIMIT	Ü	ESTIMATED	ACCOUNTING CLASSIFICATION	ATION	AMOUNT	
I F W		$\rightarrow$	Unit Price	Total Cost				
	Request natural gas service	to Building	g 15 for the be on an int	period of terruptible			-	
	cherms	required. Recor	nmend	negotiated price not	DATE TYPED NAM	TYPED NAME AND TITLE OF SIGN	SIGNATURE	
	to exceed			Estimate	1,2 nld/ Margare		11/2 . 4. 7.	, ,
		₩.	0.365/therm	\$208,780.00		r, DPW	ne gans correcto	will
	Vendor: Washington Gas							
					DISCOUNT			
		_			PURCHASE ORDER NUMBER			
					DELIVERY SCHEDULE			
1 HE	THE FOREGOING ITEMS ARE REQUIRED NOT LATER THAN AS INDICATED ABOVE THE FOLLOWING PURPOSE	HAN AS INDICATE	D ABOVE FOR		Approved by com	Approved by commanding officer or his designee	signee	
DATE 127	INITIATING OFFICER  Regina M. Larrabee, GS-12	SIGNATUR	Man	Me 15/12	TYPED NAME AND GRADE OF COMMANDING OFFICER OR DESIGNEE	F SIGNAT	VIRE	194
DATE	E TYPED NAME AND GRADE OF SUPPLY OFFICER	SIGNATURE			Henry J. Henl Director Directorate,	P.E. lic Works	0	j

	ington Gas f Columbia Division	
Telephone (7	F03) 750-1C00	
Please Give	Account Number	
ACCOUNT NUMBER:	0054.978507	*02

WALTER REED ARMY MED CTR C/O ATT HSHL-E BLDG OFF L825 16TH ST NW #BLRM WASH DC 20012

Find, check the box Tave previously bleaded	and indicate amo	unt. If you
Fuel Fund Donation	\$	
Gas Bill	c	

Donation	Φ !
Gas Bill Payment	\$
Total Payment	\$ 78674.30

BILLS ARE DUE WHEN RENDERED.

AMOUNT DUE	WOW	\$	201.420	.57
AMOUNT DUE AFTER DATE BE	LOW	\$	203,434	
OVERDUE AFTER	AI	JG	2, 94	8

#### 005497850700000000000000

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT . MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER		BILLING PERIOD			DAYS USED	DATE MAIL	LED NEXT METER READING DATE			
0054.978507	ין אחר,	94	JE NUL	], 94	29	ומר זקי	94	AUG	2,	94
CURRENT READING METHOD	CURRENT READING	-	PREVIOUS + READING	UNMETER GAS LIGH		CCF OF SAS USED	( THE	RMS _	TOT	AL THERMS
READ BY COMPANY	822700		8017000			210,000	1.0	123 2	14,	0.068
CHARGES FOR GAS SEE			lath st	NW #1	BLRM			4177	71,1	, ,,,
BALANCE FROM			81LL 64,830.0	THERN	is a	\$ .3650		\$122 78		6.27 2.95
INCREASE IN			RECEIPTS	TAX	_	3444				1.35

IF YOU HAVE ANY QUESTIONS, PLEASE CALL US AT (703)750-1000 WE ARE EASIEST TO REACH TUESDAY THROUGH THURSDAY AFTER 10 AM.

Bl	JDGET PLAN INFORMATION	ON	AMOUNT BUE NOW		701 170 57
GAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE	AMOUNT DUE NOW	S	201,420.57
\$	\$	\$	AMOUNT DUE AFTER AUG 2, 94	\$	203,434.77



	FOR YOUR RECORDS
CHECK N	D DATE:
	AMOUNT OF CHECK \$
	TAX DEDUCTIBLE WAFF CONTRIBUTION \$

ACCOUNT NUMBER 0054.978507 *02 PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

Please Give Account Number

ACCOUNT NUMBER:

0054.978507 *02

WALTER REED ARMY MED CTR C/O ATT HSHL-E BLDG OFF L825 1LTH ST NW #BLRM WASH DC 20012

Fuel Fund Donation	\$
Jas Biil Payment	\$ 
Tital Payment	\$ 

BILLS ARE DUE WHEN RENDERED.

AMOUNT DUE NOW	\$	6,723	1.74
AMOUNT DUE AFTER DATE BELOV	\$	<b>6.79</b> 0	
OVERDUE AFTER	IE. au	Da: 94	&

#### 0054978507067909806723748

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT . MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER	В	LLING PERIOD		DAYS USED	DATE MA	ILED	NEXT METER READING DATE
0054.978507	פ ,םב אטע	14 JUL 30	, 94	30	AUG 9,	94	AUG 31, 94
CURRENT READING METHOD	CURRENT READING	_ PREVIOUS + READING +	UNMETERS GAS LIGH		CCF OF GAS USED	√ THE	RMS - TOTAL THERMS
READ BY COMPANY	8245000	8227000			18,000	1.0	
CHARGES FOR GAS SE	RVICE AT: 6825	LLTH ST	NW #BI	LRM		•	
CURRENT GAS INCREASE IN	USAGE - 1	8,360.0 T	HERMS		.3650		<b>#6,701.40</b>
A PAYMENT A PAYMENT							e te de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya d

IF YOU HAVE ANY QUESTIONS, PLEASE CALL US AT (703)750-1000 WE ARE EASIEST TO REACH TUESDAY THROUGH THURSDAY AFTER 10 AM.

BUDGET PLAN INFORMATION

GAS USED TOTAL GAS INSTALLMENTS BILLED TO DATE

S S S S S AMOUNT DUE NOW S 6,723.74

AMOUNT DUE NOW S 6,723.74



FOR YOUR RECORDS	3
CHECK NO DATE:	
MOUNT OF CHECK \$	·
TAX DEDUCTIBLE .: AFF CONTRIBUTION \$	· <del></del> .

ACCOUNT NUMBER 0054.978507 *02

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

*Nasnington Gas District of Columbia Division
:-epnone

WASH DC 20012

Please Give Account Number

ACCOUNT NUMBER

0054-978507

WALTER REED ARMY MED CTR C/O ATT HSHL-E BLDG OFF 6825 16TH ST NW

Fuel Fund Donation	S
Bas Biil Payment	S
.Titai Pavment	S 142 (12 ===

11 -- 211 -- 1 -- 1 17 52

contact the private amount

AMOUNT DUE NOW.	\$ 177,357.32
AMOUNT DUE. AFTER DATE BELOW	\$ 179,130.89
OVERDUE. AFTER	OCT 3, 94

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT + PAKE CHECK PAYABLE TO WASHINGTON GAS

CCOUNT NUMBER BILLING PERIOD		DAYS DATE MAILED			NEXT METER READING DATE	
0054-978507	JULY 30,	94 - AUG 29,	94 30	SEPT	13, 94	SEPT 28, 94
SURRENT READING METHOD	GURRENT READING	PEVIOUS +	NMETERED =	COF OF BAS USED	X PER CCF	= TOTAL THERMS
READ BY COMPANY	8683000	8245000		438,000	1.021	447,198.0

CHARGES FOR GAS SERVICE AT

6825 16TH ST NW #BLRM

BALANCE FROM PREVIOUS BILL LATE PAYMENT CHARGE CURRENT GAS USAGE - 447,198.0 THERMS @ \$ .38 SYSTEM CHARGE INCREASE IN DC GROSS RECEIPTS TAX - .333%

6,723.74 67.24 169,935.24 65.00

566.10

	EUDGET PLAN	INFORMATIO	N				.,	- [	177,357.32
JAS USE HIS PER		L GAS O DATE	.NSTALLMENTS BILLED TO DATE	AMOUI	NT DUE	NOV	/V	is	177,337.32
				-MOUNT	OCT	З,	94	1	179,130.89
S	S	5	5	DUE AFTER				\$	

	Washington Gas District of Columbia Division
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	FOR YOUR RECORDS
CHECK	NO DATE:
	AMOUNT OF CHECK S
	TAX DEDUCTIBLE WAFF CONTRIBUTION S

PLEASE PETAIN THIS PORTION FOR YOUR RECCEDS

The supplies and services listed on this request are properly chargeable to the following allotments, the available balances of which are suffi-Ŕ NOT LATER THAN (Date) Н cient to cover the cost thereof, and funds have been committed NAME AND TELEPHONE NO. OF PERSON TO CALL FOR ADDITIONAL INFORMATION SIGNATURE Approved by commanding officer or his designee W74KMR 4215 0600 3 Aug 1994 Fund Certification Larrabee Certifying Officer, DPW DA1E TYPED NAME AND TITLE OF CERTIFYING OFFICER Sheila A. O'Sullivan on Directorate, Public Works 202-576-0315 Funds will be cited TYPED NAME AND GRADE OF COMMANDING OFFICER OR DESIGNEE Regina M. ACCOUNTING CLASSIFICATION Henry J. Henley, P.E. SERV individual MODs. It is requested that the supplies and services enumerated below or on attached list be: REGUISITION NO. ENG Director PREVIOUS EDITIONS OF THIS FORM WILL BE USED UNTIL EXHAUSTED. (Clugh FROM: PURCHASE ORDER NUMBER DELIVERY SCHEDULE DISCOUNT DATE PURCHASE INSTRUMENT NO. \$277,780.00 Bldg Program and Budget Branch Total Cost ō Estimate REQUISITIONING DISCLOSES NONAVAIL-ABILITY OF ITEMS AND LOCAL PURCHASE IS AUTHORIZED BY The supplies and services listed below cannot be secured through normal supply channels or other Army supply sources in the immediate vicinity, and their procurement will not violate existing regulations pertaining to local purchases for stock, therefore, local procurement is necessary for the following reason: (Check appropriate box and complete item.)

LOCAL PURCHASE AUTHORIZED AS THE ROBING PUBLITY OF ITEMS AND LOCAL PURCHAS period commend EMERGENCY SITUATION PRECLUDES USE OF REQUISITION CHANNELS FOR SECURING ITEM ESTIMATED an to Building 15 for the Rec Gas service to be on \$0.38/therm Unit Price 731, obo therms required. THE FOREGOING ITEMS ARE REQUIRED NOT LATER THAN AS INDICATED ABOVE FOR THE FOLLOWING PURPOSE For use of this form, see AR 37-108; the proponent agency is USAFAC. PURCHASE REQUEST AND COMMITMENT QUANTITY UNIT THRU: negotiated price not to exceed gas service 1 August to 31 October 1994 GS-12 DESCRIPTION OF SUPPLY OR SERVICES Purchasing and Contracting Officer TYPED NAME AND GRADE OF INITIATING OFFICER TYPED NAME AND GRADE OF SUPPLY OFFICER Washington Gas Director, DPW interruptible basis. Regina M. Larrabee, Request natural DA FORM Vendor: PURCHASED FOR GOINGBY TEM 70:

T. aprone, -TIB: TRO-1000

9 5556 G., e Account Number 0054-978507

AUCOUNT NUMBER

WALTER REED ARMY MED CTR C/O ATT HSHL-E BLDG OFF 6825 16TH ST NW WASH DC 20012

·		<u>.</u> . <u>2</u> 002
Friel Fund Donation	S	
Gas Bill Payment	\$	
Thai Payment	\$ /	02,054-47
	÷ :="	
AMOUNT DUE NO	w \$	272,689.06
AMOUNT DUE	ow \$	275,415.95

OVERTILE AFTER NOV 1, 94

PLEASE DETACH THIS STUE AND RETURN WITH PAYMENT - MAKE CHECK PAYABLE TO WASHINGTON GAS

ACCOUNT NUMBER		BILLING PERIOD	DAY USE	S DATE	MAILED	NEXT METER READING DATE
	AUG 29.	94 - SEPT 28,	94 29	OCT	11, 94	OCT 27, 94
0054-978507	LUGRENT	PREVIOUS +	CHMETERED GAS LIGHT	CCF OF GAS USED	X PHA CCI	= TOTAL THERM
READ BY COMPANY	8945000	86B3000		262,000	1.021	267,502.0
HARCES FOR GAS S	ERVICE AT:	6825	16TH ST	NW #BLRM		
BALANCE FRO CURRENT GAS CUSTOMER CI INCREASE IN	OM PREVIOU 3 USAGE 26 HARGE	7,502.0 Incom	8E. 2 9 2		\$1 1	.70,634.59 .01,650.76 .65.00 .338.71

	SUDGET PLAN INFORMATION -	AMOUNT DUE NOW S 272,689.06	
-	THIS PEHIND SEO TO DATE BILLED TO DATE	AMOUNT NOV 1, 94 S 275,415.95	
5_	<u> </u>		

	Washington Gas District of Columbia Division
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FOR YOUR RECORD	S
CHECK NO DAT	TE:
AMOUNT OF CHECK	\$
TAX DEDUCTIBLE WAFF CONTRIBUTION	S
120	

		TELEPHONE (703) 75	ia-1000
LEASE RETAIN THIS PORTION FOR YOUR RECORDS	•	LECEPHONE (1001)	
EASE RETAIN THIS POHTION FOR TUBE ACCOUNTS			

Washington Gas District of Columbia Division
PO Box 2432

• Telephone: (703) 750-1000 ;

P	ease	Give	Account	Number
---	------	------	---------	--------

Washington, D.C. 20081-0001

If you wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount, if you have previously bledded an amount, do not check box. Fuel Fund Donation Gas Bill \$ **Payment** Total \$ Payment

SILLS ARE DUE WHEN RENDERED.

0054-978507 ACCOUNT NUMBER:

WALTER REED ARMY MED CTR ATTN: HSHL-E/BUDGET OFFICE 6825 16TH ST NW WASH DC 20012

AMOUNT DUE N	ow		AMOUNT DUE AFTER DATE BELOW
\$ 125,871.13		\$	127,129.84
CVERDUE	EC	3,	92

# PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT . MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER		LLING PERIOD		DAYS USED	DATE M	MILED	NEXT METER READING DATE
0054-978507	SEPT 29,	92 - OCT	28, 92	30	NOV	6, 92	
CURRENT READING METHOD	CURRENT READING	_ PREVIOUS _ READING _	JNMETERE GAS LIGHT		JCF OF GAS USED	х тн	ERIMS - TOTAL THERMS
READ BY COMPANY	0526000 5944000	0256000 5851000	METER CHANG		363,000	1.02	
CHARGES FOR GAS SER	VICE AT:	682	25 16TH :	ST NW	#BLRM	<u>-</u> -	e Takin jir Disa

CURRENT GAS USAGE - 370,623.0 THERMS @ \$ .3287 INCREASE IN DC GROSS RECEIPTS TAX - 3.3223%

----\$ 121,823.78 4,047.35

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BUDGET PLAN INFORMATION TOTAL GAS USED TO DATE AMOUNT DUE NOW \$ 125,871.13 AMOUNT DUE AFTER DEC 3, 92 ŝ \$ S 127,129.84



FOF	YOUR RECORDS	
CHECK NO.	DATE:	
	AMOUNT OF CHECK \$	
TAX DEDUCTIBLE	WAFF CONTRIBUTION \$	

# . Washington Gas

To Listrict of Columbia Division

BILLS ARE DUE WHEN RENDERED.

0054-978507

WALTER REED ARMY MED CTR ATTN: HSHL-E/BLDG OFFICE 6825 16TH ST NW WASH DC 20012

199,488.27 S 201,483.15 JAN 6, 93

#### PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT . MAKE CHECK PAYABLE TO WASHINGTON GAS.

-CCCUNT NUMBER	. 8	ILLING PEPICO		2 % & 2 % <b>&amp;</b> 2	DATE MAILED	NEXT METER HEADING DATE
0054-978503	OCT 28,	92 DEC	1, 92	33	DEC 11, 92	DEC 31, 92
UARENT REPONS METHOD	JURAENT PEADING	_ ##Ev.CUS #EAD"\3	_ JAMETERE BAS UGHT		năs used de em	PMS = TOTAL THERMS
READ BY COMPANY	1103000	0526000			577,000 1.018	587,386.0
CHARGES FOR GAS SER	VICE AT:	. 6	6825 16TH	ST	NW #BLRM	

CURRENT GAS USAGE - 587,386.0 THERMS @ \$ .3287 INCREASE IN DC GROSS RECEIPTS TAX - 3.3223%

\$193,073.78 6,414.49

	SUDGET PLAN INFORMATION			AMOUNT DUE NOW						
	2-5 USED 1- 4 PERIOD			COTALLMENTS BILLED TO DATE	AMO	UNT D	)UE M	10M	. \$	199.488.27
s		S	s		AMOUNT CUE AFTER	JAN	6,	93	; 3	201,483.15



CORDS	FOR YOUR RECORDS							
DATE	CHECK NO.							
CHECK S	غ							
ution S	TAX DEDUCT BLE W							



P.O. Box 2432 Nashington, D.C. 20081-0001

• Telephone: 703) 750-1000

Please Give Account Number

you wish to contribute to the Washington Area Fuel Fund. Check the box and indicate amount, if you not check box.

Fuel Fund Donation

Gas Bill Payment

Total Raymont

S

JAN 2 Payment

Fayment •

WELS ARE DUE WHEN RENDERED.

ACCOUNT NUMBER:

0054-978507

219,583.27 \$ 221,779.10

WALTER REED ARMY MED CTR ATTN: HSHL-E/BLDG OFFICE 6825 16TH ST NW WASH DC 20012

PEB 5, 93

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT . MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER		ВІ	LLING	PE	RIOD				DAYS		DATE	MAILE	D.		METER NG DATE	
0054-978503	DEC	1,	92	-	DEC	31,	92	i	30	1	JAN	12,	93	FEB 2		

CURRENT READING METHOD	CURRENT READING	_	PREVIOUS PEADING	UNMETERED GAS LIGHT	 CCF OF X	THERMS =	TOTAL THER
READ BY COMPANY	1740000		1103000		637,000	1.015	646,555.

CHARGES FOR GAS SERVICE AT:

A Committee of the

6825 16TH ST NW #BLRM

CURRENT GAS USAGE - 646,555.0 THERMS @ \$ .3287 INCREASE IN DC GROSS RECEIPTS TAX - 3.3223%

\$212,522.63 -7,060.64

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14 (T) **WEST** 177

CACABOTAL TOTAL

	BUDGET PLA	N INFORMAT	ION	1	·	
GAS USED THIS PERIOD	JSED	AL GAS TO DATE	: INSTALLMENTS BILLED TO DATE	AMOUNT DUE NOW	\$	219,583.27
S	s		. <b>\$</b>	AMOUNT DUE AFTER FEB 5, 93	\$	221,779.10



	FOR YOUR RECORDS	
CHECK NO.	DATE:	
	AMOUNT OF CHECK \$	
-,	AX DEDUCTIBLE WAFF CONTRIBUTION \$	

Find, phack the nax and indicate amount.

'	2 Puel Fund 2 Conation	S	
993	Gas Bill Payment	3	
	tal		

PID: Box 2+32 Washington, DID: 20081-0001 FEB 2 1

Feedmane: TT3) TEC-1000
 Feedse Give Hospaunt Number

CBFEC :- -- -- C3FEC

⊃avment

-COCUNT NUMBER:

0054-978507

AMOUNT DUE NOW AMOUNT DUE AFTER DATE BELOW

WALTER REED ARMY MED CTR ATTN: HSHL-E/BLDG OFFICE 6825 16TH ST NW WASH DC 20012 254,560.76 \$

257,106.37

OVERDUE AFTER

S

MAR 9, 93

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT . MAKE CHECK PAYABLE TO WASHINGTON GAS.

4CCOUNT NUMBER	8111	ING PERIOD	DAYS	DATE MAILED	NEXT METER
0054-978503	DEC 31,	92 FEB 2, 93	33	FEB 12, 931	MAR 4, 93
SUFFRENT READING METHOD	SURRENT -	FREVIOUS JUMETERED	) =	CCF OF X THERM	S = TOTAL THER
READ BY COMPANY	2438000	17400001	6	98,0000   1.014	707,772.0
CHARGES FOR GAS SERVI	CE AT:	6825 16TH	ST NW	#BLRM	

CURRENT GAS USAGE - 707,772.0 THERMS @ \$ .3481 INCREASE IN DC GROSS RECEIPTS TAX - 3.3223%

\$246,375.43 8,185.33

- 177	BUDGET PLAN	INFORMATION				
JAS USED	O USED TO		MENTS AMOUNT	DUE NOW	\$	254,560.76
3	\$	S	AMOUNT DUE AFTER MAR	9, 93	S	257,106.37



	FOR YOUR RECORDS	
CHECK NO.	DATE:	
	AMOUNT OF CHECK \$	
-:	AX DEDUCTIBLE WAFF CONTRIBUTION \$	



# **Washington Gas**

District of Columbia DivisionMIN OFFICE, DE

This wish to contribute to the Washington Area Fuel Fund it heavy the lock and indicate lamount of you the previously dieaged to amount do not check box. Fuel Funa S Conation

Gas Bill ⊃ayment

S Tatal S

FID Box 2432 Washington, D.C. 20081-0001

• Telephone: - TC3) 750-1000 Please Give Account Number

1 5

Payment

ACCOUNT NUMBER

0054-978507

AMOUNT DUE AFTER DATE BELOW AMOUNT DUE NOW

S 483,088.26

BILLS ARE DUE WHE'L FE'LDERED.

S 487,919.14

OVERDUE AFTER

APR 6, 93

WALTER REED ARMY MED CTR C/O ATTN HSHL-E BLDG OFF 6825 16TH ST NW WASH DC 20012

#### PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT . MAKE CHECK PAYABLE TO WASHINGTON GAS.

4CCOUNT NUMBER		BILLING PERIOD			DAYS USED	DATE MA	ULED	NEXT METER READING DATE
0054-978503	FEB 2,	92 MAR	4,	93	30	MAR 12,	93	APR 2, 93
CRRENT	CURRENT READING	_ PREVIOUS - PEADING	-	UNMETERED GAS LIGHT	=	CCF CF GAS USED	〈 ⊃ER (	RMS = TOTAL THER
READ BY COMPANY	3064000	2438000	İ		- 6	26,000	1.015	635,390.0
CHARGES FOR GAS SER	RVICE AT:		582	5 16TH S	T NW	#BLRM	<u> </u>	

BALANCE FROM PREVIOUS BILL CURRENT GAS USAGE - 635,390.0 THERMS @ \$ .3481 INCREASE IN DC GROSS RECEIPTS TAX - 3.3223%

\$254,560.76 221,179.26 7,348.24

	9	UDGET PLAN INFORMA	TION		i	
	JAS USED THIS PERICD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE	AMOUNT DUE NOW	S	483,088.2
S		S	s	AMOUNT DUE AFTERAPR 6, 93	s	487,919.1

Washington Gas District of Columbia Division

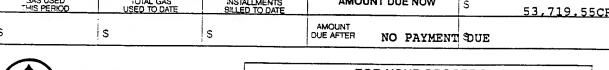
FOR	YOUR RECORDS	
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PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

Telephone (703) 750-1000  Please Give Account Number  4CCCUNT NUMBER: 0054-978507  WALTER REED ARMY MED CTR C/O ATTN HSHL-E BLDG OFF  Gas Bill Payment  Total Payment  BILLS ARE DUE WHEN  AMOUNT DUE AFTER DATE BE	S
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COMPANY	3612000	3064000		548,000	1.019	558,412.0
READ BY					!	
READING METHOD	CURRENT READING	- PREVIOUS - READING	UNMETERED GAS LIGHT	= CCF OF GAS USED	X PERICE	
CURRENT	MAR 4,	93 - APR 2,	93 : 2	29 APR 14,	93 A	PR 30, 93
0054-978503	<del>:</del>	BILLING PERIOD		DAYS DATE MA	ILED	NEXT METER READING DATE
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FOR YOUR RECORDS
CHECK NO DATE.
 AMOUNT OF CHECK \$
 TAX DEDUCTIBLE WAFF CONTRIBUTION \$

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS • TELEPHONE (703) 750-1000

"asnington Gas  Listrict of Columbia Division
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Telephone + 7031 750-1000

Please Give Account Number

4000UNT NUMBER 0054-978507

WALTER REED ARMY MED CTR C/O ATTN HSHL-E BLDG OFF 6825 16TH ST NW WASH DC 20012

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DILLS ARE DUE WHEN PENDERED.

AMOUNT DUE NOW:	\$ 88,787.89
AMOUNT DUE AFTER DATE BELOW	\$ 89,675.77
OVERDUE AFTER	JUNE 3, 93

PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT . MAKE CHECK PAYABLE TO WASHINGTON GAS.

ACCOUNT NUMBER		BILLING PERIOD	DAYS USED	DATE MAIL	ED	NEXT METER READING DATE
0054-978503	APR 2,	93 APR 30, 93	28	MAY 12, 9	93 J <b>UN</b>	E 1, 93
SURRENT SEADING METHOD	SUARENT READING		ETERED =	CCF OF GAS USED (	HERMS SERICCE	= TOTAL THERMS
READ BY	4025000	3612000	4	13-000	1.016	419.608.0
CHARGES FOR GAS SE	RVICE AT:	6825 16TH ST N	W #BLRM			

CURRENT GAS USAGE - 419,608.0 THERMS @ \$ .3287 INCREASE IN DC GROSS RECEIPTS TAX. - 3.3223% OVERPAYMENT APRIL 7, 1993

> the grant ...

1.1

\$137,925.15 4,582.29 53,719.55CR

· DECEMBER



	SUDGET PLAN INFORMA	ATION			
JAS USED THIS PERIOD	TOTAL GAS USED TO DATE	INSTALLMENTS BILLED TO DATE	AMOUNT DUE NOW	s	88,787.89
s	s	s	AMOUNT DUE AFTER JUNE 3, 93	\$	89,675.77



FOR YOUR REC	CORDS
CHECK NO	DATE:
4MOUNT OF C	HECK \$
"AX DEDUCTIBLE WAFF CONTRIBI	ution \$

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

Please Give Account Number

-DCCUNT NUMBER.

0054.978507

WALTER REED ARMY MED CTR C/O ATT HSHL-E BLDG OFF L825 1LTH ST NW #BLRM WASH DC 20012

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BILLS ARE DUE WHEN RENDERED.

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AMOUNT DUE AFTER DATE BELOW	\$	2	80,84	9.O&
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PLEASE DETACH THIS STUB AND RETURN WITH PAYMENT . MAKE CHECK PAYABLE TO WASHINGTON GAS.

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PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

Please Give Account Number

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WALTER REED ARMY MED CTR C/O ATT HSHL-E BLDG OFF LAZS 16TH ST NW #BLRM WASH DC 20012

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PLEASE RETAIN THIS PORTION FOR YOUR RECORDS



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ACCOUNT NUMBER:

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WALTER REED ARMY MED CTR C/O ATT HSHL-E BLDG OFF LA25 1LTH ST NW #BLRM WASH DC 20012

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you wish to contribute to the Washington Area Fuel

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PLEASE RETAIN THIS PORTION FOR YOUR RECORDS

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WALTER REED ARMY MED CTR C/O ATT HSHL-E BLDG OFF 6825 16TH ST NW #BLRM WASH DC 20012

PLEASE RETAIN THIS PORTION FOR YOUR RECORDS.

If you wish to contribute to the Washington Area Fuel Fund, check the box and indicate amount. If you have previous?" "agged an amount, do not check box.

Fued Donation	\$ <del></del>
Gas Bill Payment	\$
Total Payment	\$

BILLS ARE DUE WHEN RENDERED.

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Telephone (703) 750-1000

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JULY 27, 93

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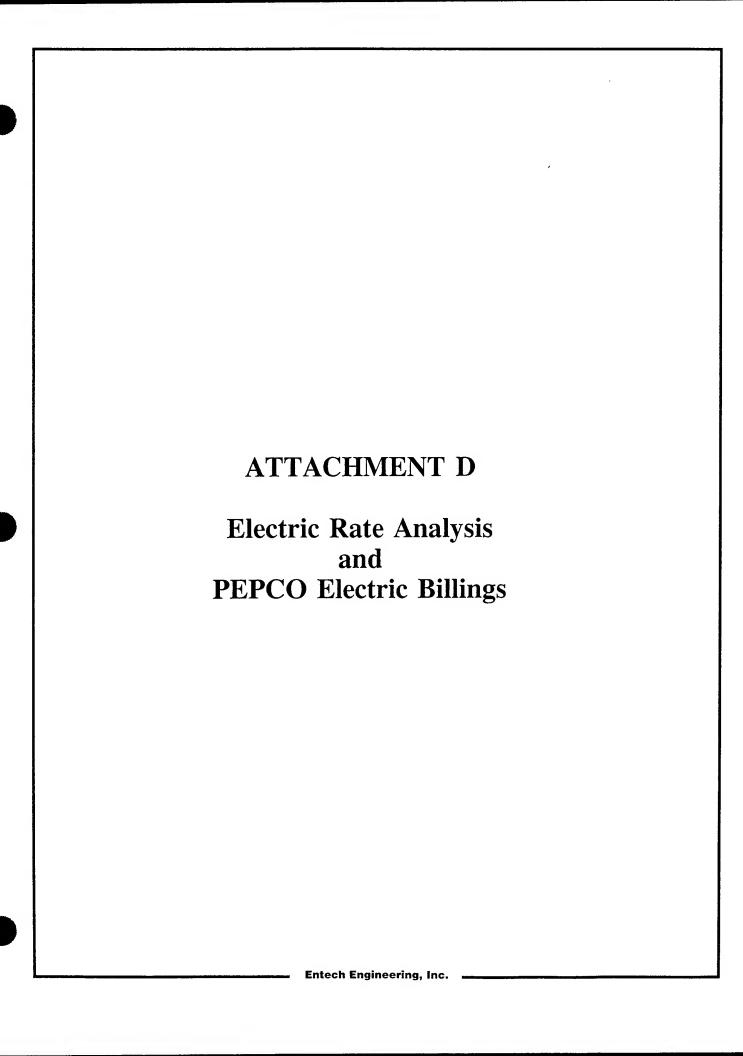
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Billing and Client Information

Diming unit chronical and an area				
Client	Walter Reed Main Meter			
Billing Year	1994			
Billing Period	September			
# of Billing Days	33			
Enter "1" for Nov-May, 0 for	Jun-Oct 0			
Rates Schedule in Effect	Summer			

Demand and Usage Information

Supply Voltage	13,200
Demand Measurements	
On-Peak Demand (kW)	15,220
Maximum Demand (kW)	15,270
Usage Measurements	
On-Peak Period (kWh)	2,257,000
Intermediate Period (kWh)	2,160,000
Off-Peak Period (kWh)	4,694,000
Registered Power Factor	100.00%

Taxes and Special Adjustments

Fuel Adjustments Rate	\$0.0035999
DC Gross Receipts Adjustment	3.67%
Clean Air Act Surcharge	
Charge to On-Peak \$/kWh	\$0.0575469 \$0.0420369
Charge to Intermediate \$/kWh	\$0.0420369
Charge to Off-Peak \$/kWh	\$0.0292869



**Duplicated Electric Bill** 

Customer Charge	1	Bill @	\$21.30	Per Bill =	\$21.30
On-Peak Usage Charge					
Base Rate Charge	2,257,000	kWh@	\$0.05714000	Per kWh =	\$128,964.98
Clean Air Act Charge	2,257,000	kWh@	\$0.00040688	Per kWh =	\$918.32
Intermediate Usage Charge					
Base Rate Charge	2,160,000	kWh@	\$0.04163000	Per kWh $=$	\$89,920.80
Clean Air Act Charge	2,160,000	kWh@	\$0.00040688	Per $kWh = \frac{1}{2}$	\$878.86
Off-Peak Usage Charge				:	
Base Rate Charge	4,694,000	kWh@	\$0.02888000		\$135,562.72
Clean Air Act Charge	4,694,000	kWh@	\$0.00040688	Per kWh =	\$1,909.88
Demand Charges					
Maximum Demand Charge	15,270	kW@	\$6.70		\$102,309.00
On-Peak Demand Charge	15,270	kW@	\$10.65	Per kW =	\$162,093.00
Curtailment Credit	0	kW			\$0.00
Curtailment Penalty	0	kW			\$0.00
Voltage Discount	5.00	% x	\$618,871.80	Subtotal =	(\$30,943.59)
Fuel Adjustment	\$0.0035999	\$/kWh x	9,111,000	Subtotal =	\$32,798.68
DC Gross Receipts Adjust.	3.67	% x	\$624,433.95	Subtotal =	\$22,895.93
4		CU	RRENT PERIO	O CHARGES.	. \$647,329.88

Calculated Incremental

Incremental Cost Per kW	\$17.09
Incremental Cost Per On-Peak kWh	\$0.06043
Incremental Cost Per Intermediate kWh	\$0.04515
Incremental Cost Per Off-Peak kWh	\$0.03260

Calculated Billing Statistics Based on Incremental Costs

Demand Cost	\$260,061.99 Energy Cost	\$386,916.99
% Demand	40.2% % Energy	59.8%
Load Factor	75.3% Power Factor Penalty	\$0.00

Current Electric Tariff (Rate HT)

	-:	Summer	Winter
Customer Charge (\$/Bill)		\$21.30	\$21.30
On-Peak Demand Charge (\$/kW)		\$10.65	\$0.00
Maximum Demand Charge (\$/kW)	i.	\$6.7000	\$6.7000
On-Peak Usage Charge (\$/kWh)		\$0.057140	\$0.047270
Intermediate Usage Charge (\$/kWh)	4	\$0.041630	\$0.040820
Off-Peak Usage Charge (\$/kWh)		\$0.028880	\$0.031010
Clean Air Act On-Peak Usage Charge, (Added \$/kWh)	i!	\$0.000407	\$0.000407
Clean Air Act Intermediate Usage Charge, (Added \$/kWh)		\$0.000407	\$0.000407
Clean Air Act Off-Peak Usage Charge, (Added \$/kWh)	:	\$0.000407	\$0.000407
Effective Power Factor (All kW)		85%	85%

Entech Engineering, Inc.	Page 2 of 4	08-Mar-95

Floctric	Rill	Calculatio	n
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:	Actual	Demand, kW	On-Peak Usage	Intermediate	Off-Peak	100%
Calculation Description	Billing	Minus 1 kW	Minus 1 kWh	Minus 1 kWh	Minus 1 kWh	Power Facto
On-Peak Demand (kW)	15,220	15,219	15,220	15,220	15,220	15,2
Maximum Demand (kW)	15,270	15,269	15,270	15,270	15,270	15,2
On-Peak Usage (kWh)	2,257,000	2,257,000	2,256,999	2,257,000	2,257,000	2,257,0
Intermediate Usage (kWh)	2,160,000	2,160,000	2,160,000	2,159,999	2,160,000	2,160,0
Off-Peak Usage (kWh)	4,694,000	4,694,000	4,694,000	4,694,000	4,693,999	4,694,0
Total Usage (kWh)	9,111,000	9,111,000	9,110,999	9,110,999	9,110,999	9,111,0
	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999	\$0.00359
Fuel Adjustment Rate (\$/kWh)	3.67%	3.67%	3.67%	3.67%	3.67%	3.67
DC Gross Receipts Adjustment	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.0004
Clean Air Act Added \$/kWh, On-Peak kWh				\$0.000407	\$0.000407	\$0.0004
Clean Air Act Added \$/kWh, Intermediate k	\$0.0004069	\$0.000407	\$0.000407			
Clean Air Act Added \$/kWh, Off-Peak kWh	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.0004
Registered Power Factor  Breakdown Calculations	100.00%	100.00%	100.00%	100.00%	100.00%	100.00
Power Factor Adjustment, 85%, On-Peak kW	0	0	0	0	0	
Power Factor Adjustment, 85%, Maximum k	0	0	0:	0	0	
	15,220	15,219	15,220	15,220	15,220	15,2
Billing On-Peak Demand (kW)	15,220	15,269	15,220	15,270	15,270	15,2
Billing Maximum Demand (kW) On People Heagae (kWh)	2,257,000	2,257,000	2,256,999	2,257,000	2,257,000°	-
On-Peak Usage (kWh)					:	
Intermediate Usage (kWh)	2,160,000	2,160,000	2,160,000	2,159,999	2,160,000	2,160,0
Off-Peak Usage (kWh)	4,694,000	4,694,000	4,694,000	4,694,000	4,693,999	4,694,0
Cost Calculation					!	
Customer Charge. \$	\$21.30	\$21.30		\$21.30	\$21.30	\$21.
Off-Peak kWh Base Rate Charge, \$	\$135,562.72	\$135,562.72	\$135,562.72	\$135,562.72	\$135,562.69	\$135,562.
Intermediate kWh Base Rate Charge, \$	\$89,920.80	\$89,920.80	\$89,920.80	\$89,920.76	\$89,920.80	\$89,920.
On-Peak kWh Base Rate Charge, \$	\$128,964.98	\$128,964.98	\$128,964.92	\$128,964.98	\$128,964.98	\$128,964.
Clean Air Act Off-Peak Charge, \$	\$1,909.88	\$1,909.88	\$1,909.88	\$1,909.88	\$1,909.88	\$1,909.
Clean Air Act Intermediate Charge, \$	\$878.86	\$878.86	\$878.86	\$878.86	\$878.86	\$878.
Clean Air Act On-Peak Charge, \$	\$918.32	\$918.32	\$918.32	\$918.32	\$918.32	\$918.
On-Peak Demand Charge, \$	\$162,093.00	\$162,082.35	\$162,093.00	\$162,093.00	\$162,093.00	\$162,093.
Maximum Demand Charge, \$	\$102,309.00	\$102,302.30	\$102,309.00	\$102,309.00	\$102,309.00	\$102,309.
Subtotal. \$ (Without Clean Air Act)	\$618,871.80	\$618,854.45	\$618,871.74	\$618,871.76	\$618,871.77	\$618,871.
Subtotal, \$ (With Clean Air Act)	\$622,578.86	\$622,561.51	\$622,578.80	\$622,578.82	\$622,578.83	\$622,578.
Voltage Discount	(\$30,943.59)	(\$30,942.72)	(\$30,943.59)	(\$30,943.59)	(\$30,943.59)	(\$30,943.
Fuel Cost Adjustment	\$32,798.68	\$32,798.68	\$32,798.68	\$32,798.68	\$32,798.68	\$32,798.
Subtotal (With Clean Air Act)	\$624,433.95	\$624,417.47	\$624,433.89	\$624,433.91	\$624,433.92	\$624,433.
Subtotal (Without Clean Air Act)	\$620,726.89	\$620,710.41	\$620,726.83	\$620,726.85	\$620,726.86	\$620,726.
DC Gross Receipts Adjustment	\$22,895.93	\$22,895.33	\$22,895.93	\$22,895.93	\$22,895.93	\$22,895.
Net Current Bill	\$647,329.88	\$647,312.79	\$647,329.82	\$647,329.83	\$647,329.85	\$647,329.
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Incremental/Penalties	n/a	\$17.09	\$0.06043	\$0.04515	\$0.03260	\$0.000

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08-Mar-95

Entech Engineering, Inc.

### Incremental Cost Check

\$ Calculations on Incrementals			
Demand (\$)	15,220 kW x	\$17.09 /kW =	\$260,061.99
Off-Peak Usage (\$)	4,694,000 kWh	0.033 / kW =	\$153,004.12
Intermediate Usage (\$	2,160,000 kWh	0.045 / kW = 0.045	\$97,528.98
On-Peak Usage (\$)	2,257,000 kWh	0.060 / kW =	\$136,383.89
Total	Calculated Billing U	sing Incrementals	\$646,978.98
:	\$647,329.88		
Cost	\$350.90		
i a	0.1%		

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Billing and Client Information

Client	Walter Reed Main Meter
Billing Year	1994
Billing Period	December
# of Billing Days	33
Enter "1" for Nov-May, 0 for Ju	in-Oct 1
Rates Schedule in Effect	Winter

Demand and Usage Information

Supply Voltage	13,200
Demand Measurements	
On-Peak Demand (kW)	15,220
Maximum Demand (kW)	15,270
Usage Measurements	
On-Peak Period (kWh)	2,257,000
Intermediate Period (kWh)	2,160,000
Off-Peak Period (kWh)	4,694,000
Registered Power Factor	100.00%

Taxes and Special Adjustments

Fuel Adjustments Rate	\$0.0035999
DC Gross Receipts Adjustment	3.67%
Clean Air Act Surcharge	
Charge to On-Peak \$/kWh	\$0.0476769
Charge to Intermediate \$/kWh	\$0.0412269
Charge to Off-Peak \$/kWh	\$0.0314169



Customer Charge	I	Bill @	\$21.30	Per Bill =	\$21.30
On-Peak Usage Charge					·
Base Rate Charge	2,257,000	kWh@	\$0.04727000	Per kWh =	\$106,688.39
Clean Air Act Charge	2,257,000	kWh@	\$0.00040688	Per kWh =	\$918.32
Intermediate Usage Charge				i	'
Base Rate Charge	2,160,000	kWh@	\$0.04082000	Per kWh =	\$88,171.20
Clean Air Act Charge	2,160,000	kWh@	\$0.00040688	Per $kWh = 1$	\$878.86
Off-Peak Usage Charge				!	
Base Rate Charge	4,694,000		\$0.03101000		\$145,560.94
Clean Air Act Charge	4,694,000	kWh@	\$0.00040688	Per kWh =	\$1,909.88
Demand Charges					!! !!
Maximum Demand Charge	15,270	kW@	\$6.70	Per kW =	\$102,309.00
On-Peak Demand Charge	0	kW@	\$10.65	Per kW =	\$0.00
Curtailment Credit	0	kW			\$0.00
Curtailment Penalty	0	kW			\$0.00
Voltage Discount	5.00	% x	\$442,750.83	Subtotal =	(\$22,137.54)
Fuel Adjustment	\$0.0035999	\$/kWh x	9,111,000	Subtotal =	\$32,798.68
DC Gross Receipts Adjust.	3.67	% x	\$457,119.03	Subtotal =	\$16,761.04
		CU	RRENT PERIOI	O CHARGES.	\$473,880.07

#### Calculated Incremental

Incremental Cost Per kW	\$6.60
Incremental Cost Per On-Peak kWh	\$0.05071
Incremental Cost Per Intermediate kWh	\$0.04435
Incremental Cost Per Off-Peak kWh	\$0.03469

#### Calculated Billing Statistics Based on Incremental Costs

Demand Cost	\$100,427.40 Energy Cost	\$373,101.78
% Demand	21.2% % Energy	78.7%
Load Factor	75.3% Power Factor Penalty	\$0.00

### Current Electric Tariff (Rate HT)

	Summer	Winter
Customer Charge (\$/Bill)	\$21.30	\$21.30
On-Peak Demand Charge (\$/kW)	\$10.65	\$0.00
Maximum Demand Charge (\$/kW)	\$6.7000	\$6.7000
On-Peak Usage Charge (\$/kWh)	\$0.057140	\$0.047270
Intermediate Usage Charge (\$/kWh)	\$0.041630	\$0.040820
Off-Peak Usage Charge (\$/kWh)	\$0.028880	\$0.031010
Clean Air Act On-Peak Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Clean Air Act Intermediate Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Clean Air Act Off-Peak Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Effective Power Factor (All kW)	85%	85%

Entech Engineering, Inc.	Page 2 of 4	08-Mar-95
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Electric	KIII	( ///	1111	กรากท
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	Licci	ric Bili Ca	<i>catation</i>			
	Actual	Demand, kW	On-Peak Usage	Intermediate	Off-Peak	100%
Calculation Description	Billing	Minus 1 kW	Minus 1 kWh	Minus 1 kWh	Minus 1 kWh	Power Factor
On-Peak Demand (kW)	15,220	15,219	15,220	15,220	15,220	15,220
Maximum Demand (kW)	15,270	15,269	15,270	15,270	15,270	15,270
On-Peak Usage (kWh)	2,257,000	2,257,000	2,256,999	2,257,000	2,257,000	2,257,000
Intermediate Usage (kWh)	2,160,000	2,160,000	2,160,000	2,159,999	2,160,000	2,160,000
Off-Peak Usage (kWh)	4,694,000	4,694,000	4,694,000	4,694,000	4,693,999	4,694,000
	9,111,000	9,111,000	9.110.999	9.110.999	9,110,999	9,111,000
Total Usage (kWh)	1		•			
Fuel Adjustment Rate (\$/kWh)	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999
DC Gross Receipts Adjustment	3.67%	3.67%	3.67%.	3.67%	3.67%	3.67%
Clean Air Act Added \$/kWh, On-Peak kWh	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Clean Air Act Added \$/kWh, Intermediate k	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Clean Air Act Added \$/kWh, Off-Peak kWh	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Registered Power Factor	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Breakdown Calculations				r		
Power Factor Adjustment, 85%, On-Peak kW	0	0	0	0	0	0
Power Factor Adjustment, 85%, Maximum k	0	0	0.	0	0	0
Billing On-Peak Demand (kW)	15,220	15,219	15,220	15,220	15,220	15,220
Billing Maximum Demand (kW)	15,270	15,269	15,270	15,270	15,270	15,270
On-Peak Usage (kWh)	2,257,000	2,257,000	2,256,999	2,257,000	2,257,000	2,257,000
Intermediate Usage (kWh)	2,160,000	2,160.000	2,160,000	2,159,999	2,160,000	2,160,000
Off-Peak Usage (kWh)	4,694,000	4,694,000	4,694,000	4,694,000	4,693,999	4,694,000
Cost Calculation	:			ļ	,	
Customer Charge. \$	\$21.30	\$21.30	\$21.30	\$21.30	\$21.30	\$21.30
Off-Peak kWh Base Rate Charge, \$	\$145,560.94	\$145,560.94	\$145,560.94	\$145,560.94	\$145,560.91	\$145,560.94
Intermediate kWh Base Rate Charge. \$	\$88,171.20	\$88,171.20	\$88,171.20	\$88,171.16	\$88,171.20	\$88,171.20
On-Peak kWh Base Rate Charge. \$	\$106,688.39	\$106,688.39	\$106,688.34	\$106.688.39	\$106,688.39	\$106,688.39
Clean Air Act Off-Peak Charge, \$	\$1,909.88	\$1,909.88	\$1,909.88	\$1,909.88	\$1,909.88	\$1,909.88
Clean Air Act Intermediate Charge, \$	\$878.86	\$878.86	\$878.86	\$878.86	\$878.86	\$878.86
Clean Air Act On-Peak Charge, \$	\$918.32	\$918.32	\$918.32	\$918.32	\$918.32	\$918.32
On-Peak Demand Charge. \$	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Maximum Demand Charge, \$	\$102,309.00	\$102,302.30	\$102,309.00	\$102,309.00	\$102,309.00	\$102,309.00
Subtotal, \$ (Without Clean Air Act)	\$442,750.83	\$442,744.13	\$442,750.78	\$442,750.79	\$442,750.80	\$442,750.83
Subtotal, \$ (With Clean Air Act)	\$446,457.89	\$446,451.19	\$446,457.84	\$446,457.85	\$446,457.86	\$446,457.89
Voltage Discount	(\$22,137.54)	(\$22,137.21)	(\$22,137.54)	(\$22,137.54)	(\$22,137.54)	(\$22,137.54
Fuel Cost Adjustment	\$32,798.68	\$32,798.68	\$32,798.68	\$32,798.68	\$32,798.68	\$32,798.68
Subtotal (With Clean Air Act)	\$457,119.03	\$457,112.66	\$457,118.98	\$457,118.99	\$457,118.99	\$457,119.03
Subtotal (Without Clean Air Act)	\$453,411.97	\$453,405.60	\$453,411.92	\$453,411.93	\$453,411.94	
DC Gross Receipts Adjustment	\$16,761.04	\$16,760.81	\$16,761.04	\$16,761.04	\$16,761.04	\$16,761.04
Net Current Bill	\$473,880.07	\$473,873.47	\$473,880.02	\$473,880.03	\$473,880.04	\$473,880.07
i i	32,300.07	Ψ.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			22,000.01	3,550.01
Incremental/Penalties	n/a	\$6.60	\$0.05071	\$0.04435	\$0.03469	\$0.00000

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Entech Engineering, Inc.

#### Incremental Cost Check

\$ Calculations on Incrementals		···	
Demand (\$)	15,220 kW x	\$6.60 / kW =	\$100,427.40
Off-Peak Usage (\$)	4,694,000 kWh	0.035 / kW =	\$162,850.70
Intermediate Usage (\$	2,160,000 kWh	0.044 / kW =	\$95,805.92
On-Peak Usage (\$)	2,257,000 kWh	0.051 / kW =	\$114,445.17
Total	Calculated Billing U	sing Incrementals	\$473,529.18
	Actual Curre	nt Period Charges	\$473,880.07
Cost	Variance (Actual M	inus Incremental)	\$350.90
	Percent Varia	ance (Var/Actual)	0.1%

0.0

0.0

0.0

Billing and Client Information

8	
Client	Walter Reed Bldg. 54
Billing Year	1994
Billing Period	September
# of Billing Days	33
Enter "1" for Nov-May, 0 for Jun-C	Oct 0
Rates Schedule in Effect	Summer

Demand and Usage Information

2 4 0 50.81	
Supply Voltage	13,200
Demand Measurements	
On-Peak Demand (kW)	2,844
Maximum Demand (kW)	2,844
Usage Measurements	
On-Peak Period (kWh)	401,200
Intermediate Period (kWh)	391,800
Off-Peak Period (kWh)	839,900
Registered Power Factor	100.00%

Taxes and Special Adjustments

Fuel Adjustments Rate	\$0.0035999
DC Gross Receipts Adjustment	3.67%
Clean Air Act Surcharge	
Charge to On-Peak \$/kWh	\$0.0575469
Charge to Intermediate \$/kWh	\$0.0420369
Charge to Off-Peak \$/kWh	\$0.0292868



**Duplicated Electric Bill** 

	Dupite	ateu Litti	rte Ditt		
Customer Charge	1	Bill @	\$21.30	Per Bill =	\$21.30
On-Peak Usage Charge				:	
Base Rate Charge	401,200	kWh@	\$0.05714000	Per kWh =	\$22,924.57
Clean Air Act Charge	401,200	kWh@	\$0.00040688	Per kWh =	\$163.24
Intermediate Usage Charge					
Base Rate Charge	391,800	kWh@	\$0.04163000	Per kWh =	\$16,310.63
Clean Air Act Charge	391,800	kWh@	\$0.00040686	Per kWh =	\$159.41
Off-Peak Usage Charge					
Base Rate Charge	839,900	kWh@	\$0.02888000	Per kWh =	\$24,256.31
Clean Air Act Charge	839,900	kWh@	\$0.00040684	Per kWh $=$	\$341.71
Demand Charges				:	
Maximum Demand Charge	2,844	kW@	\$6.70	Per kW =	\$19,054.80
On-Peak Demand Charge		kW@	\$10.65	Per kW =	\$30,288.60
Curtailment Credit	0	kW			\$0.00
Curtailment Penalty	0	kW		!	\$0.00
Voltage Discount	5.00	% x	\$112,856.21	Subtotal =	(\$5,642.81)
Fuel Adjustment	\$0.0035999	\$/kWh x	1,632,900	Subtotal =	\$5,878.28
DC Gross Receipts Adjust.	3.67	% x	\$113,756.03	Subtotal =	\$4,171.06
		CU.	RRENT PERIO	D CHARGES.	\$117,927.09

Calculated Incremental

Incremental Cost Per kW	\$17.09
Incremental Cost Per On-Peak kWh	\$0.06043
Incremental Cost Per Intermediate kWh	\$0.04515
Incremental Cost Per Off-Peak kWh	\$0.06043 \$0.04515 \$0.03260

Calculated Billing Statistics Based on Incremental Costs

Demand Cost	\$48,595.03 Energy Cost	\$69,311.09
% Demand	41.2% % Energy	58.8%
Load Factor	72.5% Power Factor Penalty	\$0.00

Current Electric Tariff (Rate HT)

	Summer	Winter
Customer Charge (\$/Bill)	\$21.30	\$21.30
On-Peak Demand Charge (\$/kW)	\$10.65	\$0.00
Maximum Demand Charge (\$/kW)	\$6.7000	\$6.7000
On-Peak Usage Charge (\$/kWh)	\$0.057140	\$0.047270
Intermediate Usage Charge (\$/kWh)	\$0.041630	\$0.040820
Off-Peak Usage Charge (\$/kWh)	\$0.028880	\$0.031010
Clean Air Act On-Peak Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Clean Air Act Intermediate Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Clean Air Act Off-Peak Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Effective Power Factor (All kW)	85%	85%

II	Entech Engineering, Inc.	Page 2 of 4	08-Mar-95
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Til deric	D:11	Calculation	
rieciric	DIII	Calculation	l

			On Book Hooga	Intornadias	Off Doc!	100%
	Actual	Demand, kW	On-Peak Usage		Off-Peak	
Calculation Description	Billing	Minus 1 kW	Minus 1 kWh	Minus 1 kWh	Minus 1 kWh	Power Factor
On-Peak Demand (kW)	2,844	2,843	2,844	2,844	2,844	2,844
Maximum Demand (kW)	2,844	2,843	2,844	2,844	2,844	2,844
On-Peak Usage (kWh)	401,200	401,200	401,199	401,200	401,200	401,200
Intermediate Usage (kWh)	391,800	391,800	391,800	391,799	391,800	391,800
Off-Peak Usage (kWh)	839,900	839,900	839,900	839,900	839,899	839,900
Total Usage (kWh)	1,632,900	1,632,900	1,632,899	1,632,899	1,632,899	1,632,900
Fuel Adjustment Rate (\$/kWh)	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999
DC Gross Receipts Adjustment	3.67%	3.67%	3.67%	3.67%	3.67%	3.67%
Clean Air Act Added \$/kWh. On-Peak kWh	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Clean Air Act Added \$/kWh, Intermediate k	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Clean Air Act Added \$/kWh, Off-Peak kWh	\$0.0004068	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Registered Power Factor	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Breakdown Calculations		,	:			
Power Factor Adjustment. 85%, On-Peak kW	0	0	0	0	0	0
Power Factor Adjustment, 85%, Maximum k	0	0	0;	0	0.	0
Billing On-Peak Demand (kW)	2,844	2,843	2,844	2,844	2,844	2,844
Billing Maximum Demand (kW)	2,844	2,843	2,844	2,844	2,844	2,844
On-Peak Usage (kWh)	401,200	401,200	401,199	401,200	401,200	401,200
Intermediate Usage (kWh)	391,800	391,800	391,800	391,799	391,800	391,800
Off-Peak Usage (kWh)	839,900	839,900	839,900	839,900	839.899	839,900
Cost Calculation	1	,	ĺ	,		
Customer Charge, \$	\$21.30	\$21.30	\$21.30	\$21.30	\$21.30	\$21.30
Off-Peak kWh Base Rate Charge, \$	\$24,256.31	\$24,256.31	\$24,256.31	\$24,256.31	\$24,256.28	\$24,256.31
Intermediate kWh Base Rate Charge, \$	\$16,310.63	\$16,310.63		\$16,310.59	\$16,310.63	\$16,310.63
On-Peak kWh Base Rate Charge, \$	\$22,924.57	\$22,924.57	\$22,924.51	\$22.924.57	\$22,924.57	\$22,924.57
Clean Air Act Off-Peak Charge, \$	\$341.71	<b>\$</b> 341. <b>71</b>	\$341.71	\$341.71	\$341.71	\$341.71
Clean Air Act Intermediate Charge, \$	\$159.41 [°]	\$159.41	\$159.41	\$159.41	\$159.41	\$159.41
Clean Air Act On-Peak Charge. \$	\$163.24	\$163.24	\$163.24	\$163.24	\$163.24	\$163.24
On-Peak Demand Charge. \$	\$30,288.60	\$30,277.95	\$30,288.60	\$30,288.60	\$30,288.60	\$30,288.60
Maximum Demand Charge, \$	\$19,054.80	\$19,048.10	\$19,054.80	\$19,054.80	\$19,054.80	\$19,054.80
Subtotal, \$ (Without Clean Air Act)	\$112,856.21	\$112,838.86	\$112,856.16	\$112,856.17	\$112,856.19	\$112,856.21
Subtotal, \$ (With Clean Air Act)	\$113,520.57	\$113,503.22	\$113,520.51	\$113,520.53	\$113,520.54	\$113,520.57
Voltage Discount	(\$5,642.81)	(\$5,641.94)	(\$5,642.81)	(\$5,642.81)	(\$5,642.81)	(\$5,642.81)
Fuel Cost Adjustment	\$5,878.28	\$5,878.28	\$5,878.27	\$5,878.27	\$5,878.27	\$5,878.28
Subtotal (With Clean Air Act)	\$113,756.03	\$113,739.55	\$113,755.98	\$113,755.99	\$113,756.00	\$113,756.03
Subtotal (Without Clean Air Act)	\$113,091.68	\$113,075.20	\$113,091.62	\$113,091.64	\$113,091.65	\$113,091.68
DC Gross Receipts Adjustment	\$4,171.06	\$4,170.45	\$4,171.06	\$4,171.06	\$4,171.06	\$4,171.06
Net Current Bill	\$117,927.09	\$117,910.01	\$117,927.03	\$117,927.05	\$117,927.06	\$117,927.09
Incremental/Penalties	n/a	\$17.09	\$0.06043	\$0.04515	\$0.03260	\$0.00000

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Entech Engineering, Inc.

#### Incremental Cost Check

\$ Calculations on Incrementals			
Demand (\$)	2,844 kW x	17.09 / kW = 1	\$48,595.03
Off-Peak Usage (\$)	839,900 kWh	0.033 / kW = 1	\$27,377.08
Intermediate Usage (\$	391,800 kWh	0.045  /kW = 100  kW	\$17,690.66
On-Peak Usage (\$)	401,200 kWh	\$0.060 /kW =	\$24,243.34
Total (	Calculated Billing U	sing Incrementals	\$117,906.12
	Actual Curre	nt Period Charges	\$117,927.09
Cost	\$20.98		
	Percent Varia	ance (Var/Actual)	0.0%

0.0

0.0

0.0

Billing and Client Information

Client W	alter Reed Bldg. 54
Billing Year	1994
Billing Period	December
# of Billing Days	33
Enter "1" for Nov-May, 0 for Jun-Oc	t 1
Rates Schedule in Effect	Winter

Demand and Usage Information

Demand and Coago information				
13,200				
2,844				
2,844				
401,200				
391,800				
839,900				
100.00%				

Taxes and Special Adjustments

Fuel Adjustments Rate	\$0.0035999
DC Gross Receipts Adjustment	3.67%
Clean Air Act Surcharge	
Charge to On-Peak \$/kWh	\$0.0476769
Charge to Intermediate \$/kWh	\$0.0412269
Charge to Off-Peak \$/kWh	\$0.0314169



**Duplicated Electric Bill** 

v-p	aiea Lieci			
1	Bill @	\$21.30	Per Bill =	\$21.30
401,200	kWh@	\$0.04727000	Per kWh =	\$18,964.72
401,200	kWh@	\$0.00040688	$Per kWh = \frac{1}{2}$	\$163.24
391,800	kWh@	\$0.04082000	Per kWh =	\$15,993.28
391,800	kWh @	\$0.00040688	Per kWh =	\$159.42
839,900	kWh@	\$0.03101000	Per $kWh = \frac{1}{2}$	\$26,045.30
839,900	kWh@	\$0.00040688	$Per kWh = \frac{1}{2}$	\$341.74
			4	
2,844	kW@	\$6.70	Per kW =	\$19,054.80
0	kW@	\$10.65	Per kW =	\$0.00
0	kW			\$0.00
0	kW			\$0.00
5.00	% x	\$80,079.40	Subtotal =	(\$4,003.97)
\$0.0035999	\$/kWh x	1,632,900	Subtotal =	\$5,878.28
		\$82,618.09	Subtotal =	\$3,029.33
	CU	RRENT PERIOI	CHARGES.	\$85,647.43
_	401,200 401,200 391,800 391,800 839,900 839,900 2,844 0 0 0 5.00 \$0.0035999	1 Bill @  401,200 kWh @  401,200 kWh @  391,800 kWh @  391,800 kWh @  839,900 kWh @  839,900 kWh @  2,844 kW @  0 kW @ 0 kW  5.00 % x  \$0.0035999 \$/kWh x  3.67 % x	1 Bill @ \$21.30  401,200 kWh @ \$0.04727000 401,200 kWh @ \$0.00040688  391,800 kWh @ \$0.04082000 391,800 kWh @ \$0.00040688  839,900 kWh @ \$0.03101000 839,900 kWh @ \$0.00040688  2,844 kW @ \$6.70 0 kW @ \$10.65 0 kW 0 kW 5.00 % x \$80,079.40 \$0.0035999 \$/kWh x 1,632,900 3.67 % x \$82,618.09	1 Bill @ \$21.30 Per Bill =  401,200 kWh @ \$0.04727000 Per kWh =  401,200 kWh @ \$0.00040688 Per kWh =  391,800 kWh @ \$0.04082000 Per kWh =  391,800 kWh @ \$0.00040688 Per kWh =  839,900 kWh @ \$0.03101000 Per kWh =  839,900 kWh @ \$0.03101000 Per kWh =  839,900 kWh @ \$0.00040688 Per kWh =  2,844 kW @ \$6.70 Per kW =  0 kW @ \$10.65 Per kW =  0 kW  0 kW  5.00 % x \$80,079.40 Subtotal =  \$0.0035999 \$/kWh x 1,632,900 Subtotal =  \$0.0035999 \$/kWh x 3.67 % x \$82,618.09 Subtotal =

Calculated Incremental

Incremental Cost Per kW	\$6.60
Incremental Cost Per On-Peak kWh	\$0.05071
Incremental Cost Per Intermediate kWh	\$0.04435
Incremental Cost Per Off-Peak kWh	\$0.03469

Calculated Billing Statistics Based on Incremental Costs

Demand Cost	\$18,765.80 Energy Cost	\$66,860.65
% Demand	21.9% % Energy	78.1%
Load Factor	72.5% Power Factor Penalty	\$0.00

Current Electric Tariff (Rate HT)

	Summer	Winter
Customer Charge (\$/Bill)	\$21.30	\$21.30
On-Peak Demand Charge (\$/kW)	\$10.65	\$0.00
Maximum Demand Charge (\$/kW)	\$6.7000	\$6.7000
On-Peak Usage Charge (\$/kWh)	\$0.057140	\$0.047270
Intermediate Usage Charge (\$/kWh)	\$0.041630	\$0.040820
Off-Peak Usage Charge (\$/kWh)	\$0.028880	\$0.031010
Clean Air Act On-Peak Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Clean Air Act Intermediate Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Clean Air Act Off-Peak Usage Charge, (Added \$/kWh)	\$0.000407	\$0.000407
Effective Power Factor (All kW)	85%	85%

Entech Engineering,	Inc.	Page 2 of 4	08-Mar-95

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Electric	KIII	1 71	C111	MATTAN
	IDLLL	v.u.	Си	LLLLUIIL

	Actual	Demand, kW	On-Peak Usage	Intermediate	Off-Peak	100%
Calculation Description	Billing	Minus 1 kW	Minus 1 kWh	Minus 1 kWh	Minus 1 kWh	Power Factor
On-Peak Demand (kW)	2,844	2,843	2,844	2,844	2,844	2,844
Maximum Demand (kW)	2,844	2.843	2,844	2,844	2,844	2,844
On-Peak Usage (kWh)	401,200	401,200	401,199	401,200	401,200	401,200
Intermediate Usage (kWh)	391,800	391,800	391,800	391, <b>7</b> 99	391,800	391,800
Off-Peak Usage (kWh)	839,900	839,900	839,900	839,900	839,899	839,900
Total Usage (kWh)	1,632,900	1,632,900	1,632,899	1,632,899	1,632,899	1,632,900
Fuel Adjustment Rate (\$/kWh)	\$0.0035999		\$0.0035999	\$0.0035999	\$0.0035999	\$0.0035999
DC Gross Receipts Adjustment	3.67%	3.67%	3.67%	3.67%	3.67%	3.67%
Clean Air Act Added \$/kWh, On-Peak kWh	\$0.0004069	\$0.000407	\$0.000407	\$0.000407		\$0.000407
Clean Air Act Added \$/kWh, Intermediate k	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Clean Air Act Added \$/kWh, Off-Peak kWh	\$0.0004069	\$0.000407	\$0.000407	\$0.000407	\$0.000407	\$0.000407
Registered Power Factor	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Breakdown Calculations	100.0074	100.0070	100.0070	100.0070		100.0070
Power Factor Adjustment, 85%, On-Peak kW	0 !	0	0	0	0	0
Power Factor Adjustment, 85%, Maximum k	. 0	0	0	0	0	0
Billing On-Peak Demand (kW)	2,844	2.843	2,844	2,844	2,844	2,844
Billing Maximum Demand (kW)	2,844	2,843	2,844	2,844	2,844	2,844
On-Peak Usage (kWh)	401,200	401,200	401,199	401,200	401,200	401,200
ntermediate Usage (kWh)	391,800	391,800	391,800	391,799	391,800	391,800
Off-Peak Usage (kWh)	839,900	839,900	839,900	839,900	839,899	839,900
Cost Calculation				,	,	•
Customer Charge, \$	\$21.30	\$21.30	\$21.30	\$21.30	\$21.30	\$21.30
Off-Peak kWh Base Rate Charge, \$	\$26,045.30	\$26,045.30	\$26,045.30	\$26,045.30	\$26,045.27	\$26,045.30
ntermediate kWh Base Rate Charge, \$	\$15,993.28	\$15,993.28	\$15,993.28	\$15,993.24	\$15,993.28	\$15,993.28
On-Peak kWh Base Rate Charge, \$	\$18,964.72	\$18,964.72	\$18,964.68	\$18,964.72	\$18,964.72	\$18,964.72
Clean Air Act Off-Peak Charge, \$	\$341.74	\$341.74	\$341.74	\$341.74	\$341.74	\$341.74
Clean Air Act Intermediate Charge, \$	\$159.42	\$159.42	\$159.42	\$159.42	\$159.42	\$159.42
Clean Air Act On-Peak Charge, \$	\$163.24	\$163.24	\$163.24	\$163.24	\$163.24	\$163.24
On-Peak Demand Charge, \$	\$0.00	\$0.00	. \$0.00	\$0.00	\$0.00	\$0.00
Maximum Demand Charge. \$	\$19,054.80	\$19,048.10	\$19,054.80	\$19,054.80	\$19,054.80	\$19,054.80
Subtotal, \$ (Without Clean Air Act)	\$80,079.40	\$80,072.70	\$80,079.35	\$80,079.36	\$80,079.37	\$80,079.40
Subtotal, \$ (With Clean Air Act)	\$80,743.79	\$80,737.09	\$80,743.74	\$80,743.75	\$80,743.76	\$80,743.79
/oltage Discount	(\$4,003.97)	(\$4,003.63)	(\$4,003.97)	(\$4,003.97)	(\$4,003.97)	(\$4,003.97)
Fuel Cost Adjustment	\$5,878.28	\$5,878.28	\$5,878.27	\$5,878.27	\$5,878.27	\$5,878.28 ¹
Subtotal (With Clean Air Act)	\$82,618.09	\$82,611.73	\$82,618.05	\$82,618.05	\$82,618.06	\$82,618.09
Subtotal (Without Clean Air Act)	\$81,953.70	\$81,947.34	\$81,953.66	\$81,953.66	\$81,953.67	\$81,953.70
OC Gross Receipts Adjustment	\$3,029.33	\$3,029.10	\$3,029.33	\$3,029.33	\$3,029.33	\$3,029.33
Net Current Bill	\$85,647.43	\$85,640.83	\$85,647.38	\$85,647.38	\$85,647.39	\$85,647.43
·						
Incremental/Penalties	n/a	\$6.60	\$0.05071	\$0.04435	\$0.03469	\$0.00000

Page 3 of 4

08-Mar-95

Entech Engineering, Inc.

#### Incremental Cost Check

\$ Calculations on Incrementals								
Demand (\$)	2,844 kW x	\$6.60 / kW =	\$18,765.80					
Off-Peak Usage (\$)	839,900 kWh	0.035 / kW =	\$29,138.96					
Intermediate Usage (\$	391,800 kWh	0.044  /kW =	\$17,378.13					
On-Peak Usage (\$)	401,200 kWh	0.051 / kW =	\$20,343.55					
Total (	Total Calculated Billing Using Incrementals							
	Actual Current Period Charges							
Cost	\$20.98							
	ance (Var/Actual)	0.0%						

0.0

0.0

0.0

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

AMOUNT PAID

(Peoco's Taxpaver identification No. 53-0127330)

Actual Reading

Reminder Notice

SERVICE

Н

01

SERVICE

ADDRESS

TURE OF

Summer Rates In Effect

**ADDRESS** 

WALTER REED HOSPITAL

ATT: HSHLL DPW/BUDGET

ROOM C 028 BUILDING 1

WALTER REED ARMY MED CTR

WASHINGTON DC 20307-5001

Due Oct 26, 19941192887.23 Due After Oct 261207543.89

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

802511160180545557351207543891026941192887230000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

0251116018

WALTER REED HOSPITAL

Actual Reading

Summer Rates In Effect

PERIOD

SERVICE Aug 24 to Sep 26 1994 33 MAYS

METER NO. MULTI- LAST COSITS PLIER PRE	METER READING EVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919 1000	3209 6125	2916000	Kilowatt Hour Meter	
R921 1000	6250 9380	3130000	Kilowatt Hour Meter	
R920 1000	704 3790	3086000	Kilowatt Hour Meter	
D 11 1000 3	9616 44310	4694000	Off-Pk \$.029286/KWH	137472.60
D 08 1000 1	9014 21174	2160000	Interm \$.042036/KWH	90799.66
D 05 1000 1	9929 22186	2257000	On-Pk \$.057556/KWH	129904.60
Total	KWH Billed	9111000	Non-Residential-GT 3A	
*Maxi	mum Demand	15270.0	Distribution Charge	102309.00
*On-P	eak Demand	15220.0	Production & Transm	162093.00
*Curtailm	ent Demand	0.0	Curtailment Credit-CS	.00
*Curtailm	ent Demand	0.00	Curtailment Penalty-CS	.00
			. Discount	30943.59CR

32798.68 Fuel Cost Adjustment at \$.00359990 per KWH

> DC Gross Receipts Adjustment 22895.93

NET CURRENT BILL 647329.88

Prior Bill Amount 1240221.39 Payments Through Oct 5 690726.54CR

TOTAL BALANCE FORWARD 545557.35

Conservation Rebate 3937.50CR

PLEASE PAY THE AMOUNT NOW DUE 1192887.23

After Oct 26, 1994, a Late Payment Charge of \$14656.66 will be added, increasing the amount due to \$1207543.89.

Just a reminder that a past due amount remained on your account at the time we prepared your bill.

The scheduled meter read date for your next bill is Oct 25, 1994.

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

AMOUNT PA

(Pepco's Taxpayer identification No. 53-0127880)

TYPE OF BILL

Actual Reading

Winter Rates In Effect

SERVICE

ADDRESS WALTER REED HOSPITAL

Н 20

WALTER REED ARMY MED CTR FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 50075

Due Feb 19, 1992 297225.2 Late Payment Charge 2972.2 Due After Feb 19 300197.4 Payment may be made 🚬 payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE > 1 -CCCUNT NO

7025111601800000000000000197470219920297225220000251116018 1

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT							
ACCOUNT NO. > 0251116018_		Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of					
A CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF TH	STORE STATE						
METER NO. LAST DIGITS PLIER PREVIOUS PRESENT	KWH USED KW DEMAND* DESC	RIPTION	UNT				
R921 1000 384 2552 R920 1000 8755 1225 Total KWH Billed *Maximum Demand	2178000 Kilowatt 2469000 Kilowatt 3879710 Off-Pk \$ 1612750 Int-Pk \$ 1641393 On-Pk \$ 7133853 Non-Reside 11917.1 Distribu		1.7				
Fuel Cost Adjus	NET C	Adjustment 9557 URRENT BILL 297225 Bill Amount 335792					
F	PLEASE PAY THE AMO	JNT NOW DUE 297225	. 2				

After Feb 19, 1992, a Late Payment Charge of \$2972.25 will be added, increasing the amount due to \$300197.47.

We appreciate the prompt manner in which you pay your bill -THANK YOU!

You may have noticed that PEPCO's bill format looks different. See Lines Plus for an explanation on how your bill has changed

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

AMOUNT PAID

15587

/Pepco's Taxpaver Identification No 53-0127880)

TYPE OF BILL

Actual Reading

Winter Rates In Effect

SERVICE

ADDRESS WALTER REED HOSPITAL

Н WALTER REED ARMY MED CTR 20 FACILITIES ENGR DIV

WASHINGTON DC 20012

GA AVE & BUTTERNUT ST NW

Due Mar 19, 1992 47.0EEEDE Late Payment Charge IE.EEDE Due After Mar 19 306364.05 Payment may be made

payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE > ...

SERVICE ...

102511160180000000000000000144050317920303330740000**251116018** 

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCCLART J.

0251116018

/20/

TYPE OF Actual Readings BILE: 1...

Winter Rates In Effect SERVICE Jan 27 to Feb 25-1972 30,

SERVICE . WALTER REED HOSPITAL ADDRESS 1100

METER NO. MULTI- LAST DIGITS PLIER	METER REA	ADING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919 1000	4504	PPOP	5105000	Kilowatt Hour Meter	
8457 7000	2562	4676	2114000	Kilowatt Hour Meter	
R920 1000	1552	<b>888</b> E	5663000	Kilowatt Hour Meter	
			3418568	Off-Pk \$.028329/KWH	96848.03
			1720973	Int-Pk \$.037259/KWH	64123.45
			1800477	On-Pk \$.043190/KWH	77764.00
Tota	1 KWH B:	illed	6440018	Non-Residential-GT 3A	
*Ma	ximum De	emand	15511.6	Distribution Charge	73880.18
*On	-Peak De	emand	15511.6	Production & Transm	.00
*Curtai	lment De	emand	0.0	Curtailment Credit-CS	.00
*Curtai	lment De	emand	0.00	Curtailment Penalty-CS	.00

Discount 15630.78C Fuel Cost Adjustment at \$.00049100- per KWH 3407.55C

DC Gross Receipts Adjustment 9753.41 NET CURRENT BILL 303330.74

> Prior Bill Amount 297225.22 Payments Through Feb 27 297225.220

PLEASE PAY THE AMOUNT NOW DUE 303330.74

After Mar 19, 1992, a Late Payment Charge of \$3033.31 will be added, increasing the amount due to \$306364.05.

Practicing energy conservation today means saving money and energy without sacrificing comfort and convenience. For energysaving tips or descriptions of the wide array of Powerwatchers options available to you, call us at (202) 833-7500.

Period	Days	KWH-Used	Avg KWH per Day	% Change
Feb 91	37	6959965	224515.0	
Feb 92	30	6940018	P.EEE1E5	3.0

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

Peoco's Taxpaver identification No. 53-0127880)

Actual Reading TYPE OF

Winter Rates In Effect

SERVICE

15565

SILL

ADDRESS WALTER REED HOSPITAL

H ---WALTER REED ARMY MED CTR 20 FACILITIES ENGR DIV

GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Apr 20, 1992 294307.48 Late Payment Charge 2943.07 Due After Apr 20 297250.55 Payment may be made

payable to pepco

AMOUNT PAID

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

702511160180000000000297250550420920294307480000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

0251116018 SERVICE WALTER REED HOSPITAT ADDRESS

DESCRIPTION PRESENT AMOUNT R919 1000 2**5**05 **E878** 2177000 Kilowatt Hour Meter R921 1000 4676 6874 2198000 Kilowatt Hour Meter R920 1000 3888 6066 2178000 Kilowatt Hour Meter 3140660 HWAYDEE850.¢ A9-770 88974.90 1697932 Int-Pk \$.037260/KWH 63264.95 1772554 On-Pk \$.043190/KWH 76558.28 Total KWH Billed 6611,146 Non-Residential-GT 3A *Maximum Demand 12440.7 Distribution Charge 75266.24

*On-Peak Demand 12440.7 Production & Transm .00 *Curtailment Demand 0.0 Curtailment Credit-CS .00 *Curtailment Demand O.OCurtailment Penalty-CS .00

> Discount 15203.22CR Fuel Cost Adjustment at \$.00060760- per KWH 4016.93CR DC Gross Receipts Adjustment 9463.26 NET CURRENT BILL 294307.48

> > Prior Bill Amount 303330.74 Payments Through Mar 30 303330.74CR

PLEASE PAY THE AMOUNT NOW DUE 294307.48

After Apr 20, 1992, a Late Payment Charge of \$2943.07 will be added, increasing the amount due to \$297250.55.

PEPCO wants to help you shed some light on energy efficiency through use of compact fluorescent and halogen light bulbs. this month's issue of Lines for information. Later this month, PEPCO will begin mailing coupons to every residential customer for up to 75 percent off the purchase price of these energyefficient bulbs. Be sure to watch for them.

Period Days KWH-Used Avg KWH per Day % Change Mar 91 29 6756522 232983.5 Mar 92 29 6611146 227970.6 2.2-

SEE REVERSE SIDE FOR IMPORTANT INFORMATION Potomac Electric Power Company

* IF APPLICABLE

³.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

150707

Pepco's Taxpaver identification No. 53-0127880)

Actual Reading TYPE OF

Winter Rates In Effect

30.1

SERVICE WALTER REED HOSPITAL ADDRESS

Н WALTER REED ARMY MED CTR 20 FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW

DC SUUTS

WASHINGTON

*On-Peak Demand

*Curtailment Demand

*Curtailment Demand

Due May 19, 1992 304467.41 Late Payment Charge 3044.67 Due After May 19 307512.08 Payment may be made

payable to pepco

AMOUNT PAID

.00

.00

.00

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE > +

30251116018000000000307512080519920304467410000**251116018** 

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT Actual Reading ,033.... 0251116018 WALTER REEDEHOSET AND Mars 251 tos April 21 1972 METER READING VIOUS PRESENT KWH USED DESCRIPTION AMOUNT PREVIOUS 1061 R919 1000 8783 2278000 Kilowatt Hour Meter R921 1000 6874 9174 00000E5 Kilowatt Hour Meter R920 1000 6066 EPEB 2277000 Kilowatt Hour Meter 3276504 Off-Pk \$.028330/KWH 92823.36 1783725 Interm \$.037259/KWH 66461.59 1853622 On-Pk \$.043190/KWH 80058.80 Total KWH Billed 6913851 Non-Residential-GT 3A *Maximum Demand 13451.2 Distribution Charge A1379.76

13451.2

Discount 16036.18C Fuel Cost Adjustment at \$.00144780- per KWH 10009.87C DC Gross Receipts Adjustment 9789.95 NET CURRENT BILL 304467.41

> Prior Bill Amount 294307.48 Payments Through Apr 28 294307.48C

PLEASE PAY THE AMOUNT NOW DUE 304467.41

Production & Transm

0.0 Curtailment Credit-CS

O. OCurtailment Penalty-CS

After May 19, 1992, a Late Payment Charge of \$3044.67 will be added, increasing the amount due to \$307512.08.

PEPCO's Kilowatchers Club is a great way to save money and conserve energy. If you're not a member, see this month's issue of Lines for details on how to take advantage of this Powerwatchers opportunity, or call (202) 833-7500 for information. Current members need not reapply.

Period	Days	KWH-Used	Avg KWH per Day	% Change
Apr 91	30	7018928	233964.3	
Apr 92	29	6913851	238408.7	1.9

AMOUNT PAIC

3 O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

FILLE

Papeo's Taxpaver identification No. 53-01278801

TYPEOF Actual Reading

Winter Rates In Effect

∃!LL

SERVICE WALTER REED HOSPITAL

Н 20 WALTER REED ARMY MED CTR FACILITIES ENGR DIV

GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Jun 18, 1992 356452.27 Late Payment Charge 3564.52 Due After Jun 18 350016.79 Payment may be made

payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

502511160180000000000360016790618920356452270000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

052777P079

WALTER REED HOSPITAL

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. TYPE OF Actual Reading Winter Rates In Effect SERVICE APR 24 to May 25 1992 32

THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P	water theman a for the	, with the	4.43
METER NO MULTI- METE LAST DIGITS PLIER PREVIOUS	R READING KWH USED PRESENT KW DEMAND*	DESCRIPTION	AMOUNT
R919 1000 106 R921 1000 917 R920 1000 834 Total KWH *Maximum	4 1817 2543000 3 953 2510000 4131590 1850531 1980713 Billed 7952934 Demand 14318.5	Kilowatt Hour Met Kilowatt Hour Met Off-Pk \$.028329/K Interm \$.037259/K On-Pk \$.043189/K Non-Residential-GT	er er WH 117047.94 WH 68954.51 WH 65546.59
*On-Peak *Curtailment *Curtailment	Demand [].[]	Production & Tran Curtailment Credit- Curtailment Penalty-	sm
Fuel		Discou at \$.00059320 per K ss Receipts Adjustme NET CURRENT BI	WH 4723.61 nt 11461.49
	Pa	Prior Bill Amou ayments Through May a	

PLEASE PAY THE AMOUNT NOW DUE 356452.27

After Jun 18, 1992, a Late Payment Charge of \$3564.52 will be added, increasing the amount due to \$360016.79.

Please note that summer billing rates will be applied to your next bill, and will be in effect through your October bill. the electricity you use after the service period shown above will be priced on summer rates. Rates are higher in the summer because it costs more to meet the higher demand for electricity created by heavy air conditioner use. The situation is just the opposite in the winter billing months (November-May) when demand for electricity diminishes, and rates are lower.

² O. Box 2812 'Washington, DC 20067-2812 Telephone (202) 833-7500

12084

Pepco s Taxpaver Identification No. 53-0127880)

TYPE OF

Actual Reading

Summer Rates In Effect

SERVICE WALTER REED HOSPITAL ADDRESS

Н 20 FACILITIES ENGR DIV

GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

WALTER REED ARMY MED CTR Due Jul 20, 1992 506532.26 Late Payment Charge 5065.32 Due After Jul 20 511597.58

Payment may be made

AMOUNT PAID

payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

00251116018000000000051159758072092050653226000**0251116018** 

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

0251116018

REPERHOSPITABLE

TYPE OF Actual Reading Summer Rates In Ef

PERMISE Haye 26 to June 2

							and the same of the same
METER NO. LAST DIGITS	MULTI- PLIER	METER PREVIOUS	READING PRESENT	KWH USED	DESCRIPTION		AMOUNT
R919	1000	3703	F534	2531000	Kilowatt Hour	Meter	
R 451	1000	1817	4470	2593000	Kilowatt Hour	Meter	
R920	1000	953	34 <b>95</b>	2542000	Kilowatt Hour	Meter	
				3713292	Off-Pk \$.0263	79/KWH	97956.64
				1950403	Interm \$.0380]	L9/KWH	74154.32
				2061874	On-Pk \$.0521°	HWX\PF	107628.60
	Tota	1 KWH	Billed	7725569	Non-Residential-	-GT 3A	
	*Max	ximum	Demand	15177.6	Distribution (	Charge	91824.48
			Demand	15177.6	Production & 1	Transm	147222.72
* Cı	urtai.	lment	Demand	1177.6	Curtailment Cred	iit-CS	97 <b>67.8</b> 40
*C	urtail	lment	Demand	0.0	Curtailment Penal	lty-cs	.00
				-		scount	25939.35C
		Fuel	Cost Ad	ljustment	at \$.00092750 pe	r KWH	7165.47

DC Gross Receipts Adjustment 16287.22 NET CURRENT BILL 506532.25

> Prior Bill Amount 356452.27 Payments Through Jun 26 356452.27(

PLEASE PAY THE AMOUNT NOW DUE 506532.26

added, increasing the amount due to \$511597.58.

Thank you for the prompt manner in which you pay your bill.

See the June issue of LINES to learn if you qualify for Pepco's Time-Of-Use rates, or call TOU Services at (202) 331-6248 *** To schedule a free presentation on energy-related topics for your organization, call Pepco's Speakers Bureau at (202) 872-2336.

Period Davs KWH-Used Avg KWH per Day % Change Jun 91 32 958985F 1.70E0PS Jun 32 F5 2725564 F.BPEdd5 ä.2-

SEE REVERSE SIDE FOR IMPORTANT INFORMATION * F APPLICABLE

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

12349

Repco's Taxpaver identification No. 53-0127880)

TYPE OF

Actual Reading

Summer Rates In Effect

BILL

SERVICE

WALTER REED HOSPITAL ADDRESS

WALTER REED ARMY MED CTR 20---FACILITIES ENGR DIV

GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Aug 18, 1992 598269.47 Due After Aug 18 604252.16

> Payment may be made payable to pepco

AMOUNT PAIL

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

702511160180000000000604252160818920598269470000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO.

SUBMER REED HOSPITAL SERVICE Jun 24 to Jul 24 1992 30

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AMOUNT .	DESCRIPTION	KWH USED KW DEMAND	READING PRESENT	METER PREVIOUS	MULTI- PLIER	METER NO. LAST DIGITS
123044.05 89810.45 130798.80 104929.07 168030.74 21916.26	Kilowatt Hour Meter Off-Pk \$.027422/KWH Interm \$.039521/KWH On-Pk \$.054255/KWH Non-Residential-GT 3A Distribution Charge		7624 5 6408 Billed	ximum -Peak lment	1000 1000 Tota *Ma: *On:	*Cı
30830.64 15166.31	Discount at \$.00165370 per KWH		Cost Ad	Fuel	Avg.	

DC Gross Receipts Adjustment 19236.95 NET CURRENT BILL 598269.47

> Prior Bill Amount 506532.26 Payments Through Jul 28 506532.26

PLEASE PAY THE AMOUNT NOW DUE 598269.47

After Aug 18, 1992, a Late Payment Charge of \$5982.69 will be added, increasing the amount due to \$604252.16.

In the market for a new home? Look for a Pepco Energy Saver Home..."Energy Efficiency With All the Comforts of Home.(sm)" See details in LINES.

A Deviation of the call of the

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15576

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Summer Rates In Effect

SERVICE ADDRESS WALTER REED HOSPITAL

Н WALTER REED ARMY MED CTR 20 FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Sep 16, 1992 610857.59 Due After Sep 16 616966.17

> Payment may be made payable to pepco

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TYPE OF Actual Reading

WALTER REED HOSPITAL ADDRESS

Summer Rates In Effect SERVICE

Jul 24 to Aug 24 1992 31 Aug PERIOD

AMOUNT	DESCRIPTION	KWH USED KW DEMAND	PRESENT		SHEETING.	क्षा आहे. हुन जानम्बर्धाः
	Kilowatt Hour Meter	3000000	0 2230	923		R919
	Kilowatt Hour Meter	00080SE	24 <b>83</b> 2	7621	1000	R921
	Kilowatt Hour Meter	2915000	ESEP BI	5408	1000	R920
132091.87	Off-Pk \$.028220/KWH	4680789				
89115.82	Interm \$.040670/KWH	5141143				
		5357300				
	Non-Residential-GT 3A	9198585	Billed	1 KWH	Tota.	
	Distribution Charge					
	Production & Transm		Demand			
20626.43CR	Curtailment Credit-CS	2486.7	Demand			
.00	Curtailment Penalty-CS	0.0	Demand	lment	urtai.	*Cı
31485.39CR	Discount					
19619.89	at \$.00148070 per KWH	djustment	. Cost A	Fuel		

DC Gross Receipts Adjustment 19641.73 NET CURRENT BILL 610857.59

> Prior Bill Amount 598269.47 Payments Through Aug 25 598269.47CR

PLEASE PAY THE AMOUNT NOW DUE 610857.59

After Sep 16, 1992, a Late Payment Charge of \$6108.58 will be added, increasing the amount due to \$616966.17.

Are you thinking about buying a new air conditioner or heat pump? Pepco offers rebates on qualifying high efficiency units. For more details, call Pepco's Residential Energy Services at (202)872-2465.

P.O. Box 2812 Wasnington, DC 20067-2812 Telephone (202) 833-7500

AMOUNT PAID

-Pepco's Taxpaver Identification No. 53-0127880)

TYPE OF BILL

Actual Reading

Summer Rates In Effect

SERVICE **ADDRESS** 

WALTER REED HOSPITAL

Н 20

WALTER REED ARMY MED CTR FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Oct 19, 1992 607174.88 Due After Oct 19 613246.63

> Payment may be made payable to peoco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE .

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PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

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Summer Rates 4 Stock

WALTER: REED_HOSPITABL

Aug_20 to: Sept = 1916. 30

NETERNO. MULTI- METER READING LAST DIGITS PLIER PREVIOUS PRESENT	KWH USED	DESCRIPTION	AMOUNT
R919 1000 2230 5127 R921 1000 832 3924 R920 1000 9323 2136  Total KWH Billed  *Maximum Demand  *On-Peak Demand  *Curtailment Demand  *Curtailment Demand	3092000 2813000 4265178 2239759 2373338 8878275 16372.2 16372.2	Kilowatt Hour Meter Kilowatt Hour Meter Off-Pk \$.028219/KWH Interm \$.040670/KWH On-Pk \$.055828/KWH Non-Residential-GT 3A	1203L3.32 91091.00 132500.53 10L419.30 170270.88

Discount 31032.25C Fuel Cost Adjustment at \$.00022090- per KWH 1961.21C DC Gross Receipts Adjustment 19523.31 NET CURRENT BILL 607174.88

> Prior Bill Amount 610857.59 Payments Through Sep 25 610857.59C

PLEASE PAY THE AMOUNT NOW DUE 607174.88

After Oct 19, 1992, a Late Payment Charge of \$6071.75 will be added, increasing the amount due to \$613246.63.

Don't forget, summer rates are in effect June through October. Please use energy wisely.

Residential and commercial customers can save money, save energy with Pepco's Powerwatchers programs. Call 202/833-7500 for information.

ADMIN ULLICE, DEH

3 0 SEr 1992

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SEE REVERSE SIDE FOR IMPORTANT INFORMATION Potomac Electric Power Company

*IF APPLICABLE

PO Box

Pepco Potomac Electric Power Company
P.O. Box 2812 Washington Do 2005

Telephone (202) 833-7500

(Pepco's Taxpayer Identification No. 53-0127880)

Actual Reading TYPE OF

Summer Rates In Effect

SERVICE

WALTER REED HOSPITAL ADDRESS

H ---WALTER REED ARMY MED CTR 20 FACILITIES ENGR DIV

GA AVE & BUTTERNUT ST NW WASHINGTON DC 50075

Due Nov 16, 1992 464702.99 Due After Nov 16, 469350.02

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

AMOUNT PAID

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PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. A STATE OF 温红竹。 1;1 METER READING PREVIOUS PRESENT DESCRIPTION AMOUNT R919 1000 5127 7418 2291000 Kilowatt Hour Meter R921 1000 45PE 6352 2428000 Kilowatt Hour Meter-R920 1000 513P 43**6**1 2225000 Kilowatt Hour Meter 3524776 Off-Pk \$.028220/KWH 99469.18 1695924 Interm \$.040670/KWH 68973.23 1785615 On-Pk \$.055831/KWH EB.EP4PP Total KWH Billed 7006315 Non-Residential-GT BA *Maximum Demand 13271.2 Distribution Charge 86262.80 *On-Peak Demand 13271.2 Production & Transm 138020.48 *Curtailment Demand 0.0 Curtailment Credit-CS .00 *Curtailment Demand 0.0Curtailment Penalty-CS .00

Discount 24620.98C Avg. Fuel Cost Adjustment at \$.00257450- per KWH 18037.77C DC Gross Receipts Adjustment 14942.22 NET CURRENT BILL 464702.99

> Prior Bill Amount 607174.88 Payments Through Oct 25 607174.88C

PLEASE PAY THE AMOUNT NOW DUE 464702.99

After Nov 16, 1992, a Late Payment Charge of \$4647.03 will be added, increasing the amount due to \$469350.02.

Pepco's new Custom Rebate Program offers commercial customers cash rebates for improvements in energy efficiency to any existing electrical equipment. If you're replacing worn equipment, remodeling or looking to lower overhead, call Pepco at 202/872-4630 for additional information about this comprehensive program.

ADMIN OFFICE, DEH

9 OCT 1992

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PO. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

Pepco's Taxpaver identification No. 53-0127880)

Actual Reading

Winter Rates In Effect

AMOUNT PAID

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ADDRESS.

TYPE OF 3ILL SERVICE

ADDRESS

WALTER REED ARMY MED CTR FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

WALTER REED HOSPITAL

Due Dec 15, 1992 308257.88 Due After Dec 15 311350.5b

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

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PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

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Winter-Rates-In-Effect SERVICE Oct 22 to Nove2131992 29 

PERIOD METER READING PREVIOUS PRESENT DESCRIPTION R919 1000 7418 9690 2272000 Kilowatt Hour Meter R921 1000 6352 8690 000BEES Kilowatt Hour Meter R920 1000 43**6**1 PP13 2252000 Kilowatt Hour Meter 3443647 Off-Pk \$.030320/KWH 1700626 Interm \$.039900/KWH 1780311 On-Pk \$.046501/KWH Total KWH Billed 6922584 Non-Residential-GT 3A

WALTER REED HOSPITAL

*Maximum Demand 12571.6 Distribution Charge *On-Peak Demand 12571.6 Production & Transm *Curtailment Demand 0.0 Curtailment Credit-CS *Curtailment Demand 0.0Curtailment Penalty-CS

Discount

16808.730 21010.04c

AMOUNT

104350.74

67854.98

A2253.37

81715.40

.00

.00

.00

Fuel Cost Adjustment at \$.00303500- per KWH DC Gross Receipts Adjustment NET CURRENT BILL

9912.16 308267.88

Prior Bill Amount 464702.99 Payments Through Nov 24 464702.99C

PLEASE PAY THE AMOUNT NOW DUE 308267.88

After Dec 15, 1992, a Late Payment Charge of \$3082.68 will be added, increasing the amount due to \$311350.56.

Pepco has filed its Productivity Improvement Plan for 1992 with the D.C. Public Service Commission. The plan sets forth cost-effective productivity improvement goals for Pepco. more information or to obtain a copy, call 202/833-7500, or visit the Pepco Customer Service Center at 1900 Pennsylvania Ave., N.W. Hours are 8:30 a.m. to 5:15 p.m.

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

(Pepco's Taxpayer identification No. 53-0127880)

Actual Reading TYPE OF

Winter Rates In Effect

SERVICE WALTER REED HOSPITAL ADDRESS

والقالانكي القراقة JAN n 4 1993

ADMINI OFFICE DEL

AMOUNT PAID

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WALTER REED ARMY MED CTR FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 50075

Due Jan 19, 1993 319814.57 Due After Jan 19 323012.72

> Payment may be made payable to peoco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

ACCOUNT NO.

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PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT Sand Addition ACCOUNT NO. 0251116018 मिट्नी का सारक METER READING
PREVIOUS PRESENT KWH USED DESCRIPTION AMOUNT KW DEMAND* PLPR 1000 9690 5105 2412000 Kilowatt Hour Meter

R921 1000 8690 BEEL 2648000 Kilowatt Hour Meter R920 1000 P**F13** 9107 2494000 Kilowatt Hour Meter 39454B1 HWAYLEGEO.\$ 44-410 1804593 Interm \$.039899/KWH 1873365 On-Pk \$.046201/KWH Total KWH Billed 7623439 Non-Residential-GT 3A

*Maximum Demand 13156.7 Distribution Charge *On-Peak Demand 12506.2 Production & Transm *Curtailment Demand 0.0 Curtailment Credit-CS *Curtailment Demand O.OCurtailment Penalty-CS

85518.55 .00 .00 .00

Discount Fuel Cost Adjustment at \$.00472020- per KWH

18185.02C 35984.1LC 10283.43

119626.98

72003.2L

E2.12248

DC Gross Receipts Adjustment NET CURRENT BILL 319814.57

Payments Through Dec 29

308267.88 308267.88C

PLEASE PAY THE AMOUNT NOW DUE 319814.57

Prior Bill Amount

After Jan 19, 1993, a Late Payment Charge of \$3198.15 will be added, increasing the amount due to \$323012.72.

The D.C. Energy Office offers the Low-Income Home Energy Assistance Program (LIHEAP) and the Complementary Energy Assistance Program (CEAP) to help qualified customers with their electric bills. Call the D.C. Energy Office at (202) 724-2100. **** Pepco has filed its 1992 Productivity Improvement Plan with the D.C. Public Service Commission. For more information or to obtain a copy, call 202/833-7500, or visit our Customer Service Center at 1900 Pennsylvania Avenue, N.W.



7533P

TYPE OF

### Potomac Electric Power Company

PO Box 2812 Washington, DC 20067-9819

Farephone (202) 833-7500

Happons Taxpaver Identification No. 53-2 (27380) Actual Reading

Winter Rates In Effect

EILL SERVICE ADDRESS

WALTER REED HOSPITAL

Н WALTER REED ARMY MED CTR 20 FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 50075

Due Feb 18, 1993 327601.57 Due After Feb 18 330877.59

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

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j	R920 1000 910	02 4524 8E04 8E	KWHUSED: KWDEMAND 2422000 2700000 2535000 4222323	Kilowatt Hour Kilowatt Hour Kilowatt Hour	Meter	AMOUNT
	Total KWH *Maximum *On-Peak *Curtailment *Curtailment	Demand Demand	1719012 1790626 7731961 12285.3 12084.8	Off-Pk \$.0303 Interm \$.03990 On-Pk \$.04620 Non-Residential- Distribution Of Production & Tourtailment Creduction & Tourtailment Penal	IN/KWH IN/KWH GT BA Charge Transm	128020.83 68588.58 82729.81 79854.45 .00
	Fuel	Cost Adjı	ustment at DC Gross	Dis \$.00312550- pe Receipts Adjus NET CURRENT	tment	17959.68CR 24166.24CR 10533.82

NET CURRENT BILL

327601.57 319814.57

Prior Bill Amount Payments Through Jan 28

319814.57CR PLEASE PAY THE AMOUNT NOW DUE 327601.57

After Feb 18, 1993, a Late Payment Charge of \$3276.02 will be added, increasing the amount due to \$330877.59.

Thank you for being a prompt paying customer.

Winter rates are in effect now through the billing month of May. Even though winter rates are lower than those in summer, always remember to use energy wisely.

AMOUNT PAID

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Winter Rates In ETMENTOF DE

SERVICE

ADDRESS WALTER REED HOSPITAL

HAR 2 - 1993

Н WALTER REED ARMY MED CTR 20 FACILITIES ENGR DIV

Due Mar 19, 1993 IE. 4448PS Due After Mar 19 301632.77

GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO ICN YOUR REMITTANCE.

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0251116018 ADDRESS WALTER REED HOSPITAL

TYPEOF Actual Reading Winter Rates In Effect SERVICE Jan 26 to Feb 24 1993 29 PERIOD

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METER NO. LAST DIGITS	MULTI- MI PLIER PREVIO	ETER READING DUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000 45	24 6609	2085000	Kilowatt Hour Meter	
R921	1000 40	18E4 BEI	2343000	Kilowatt Hour Meter	
R920	7000 TF	42 3814	2172000	Kilowatt Hour Meter	
			3318478	Off-Pk \$.030319/KWH	100616.25
			JP33P50	Interm \$.039900/KWH	65181.44
			1709046	On-Pk \$.046202/KWH	78961.63
	Total KW	/H Billed	6 <b>661</b> 144	Non-Residential-GT 3A	
	*Maximu	ım Demand	12158.4	Distribution Charge	79029.60
	*On−Pea	k Demand	12158.4	Production & Transm	.00
*Cı	ırtailmen	t Demand	0.0	Curtailment Credit-CS	.00
*Ct	ırtailmen	t Demand	0.00	Curtailment Penalty-CS	.00

Discount 16189.4401

Fuel Cost Adjustment at \$.00278570- per KWH 18555.95Ci DC Gross Receipts Adjustment 9602.78

NET CURRENT BILL 298646.31

Prior Bill Amount 327601.57 Payments Through Feb 24 327601.57CF

PLEASE PAY THE AMOUNT NOW DUE IE. 1418PS

After Mar 19, 1993, a Late Payment Charge of \$2986.46 will be added, increasing the amount due to \$301632.77.

Are you finding it difficult to pay your electric bill? See the February issue of Lines for Pepco programs which can make paying your electric bill easier and more convenient. Or call us at (202) 833-7500 anytime and speak to one of our customer service representatives. They also can refer you to energy assistance programs in your area that provide financial assistance for qualified customers. And while you're talking with us, ask about Pepco's money-saving Powerwatchers options.

"IF APPLICABLE

-MOUNT PAID

PC Box 2312 Wishington UC 20087-2312 -ephone (202, 833-7500

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Actual Reading

Winter Rates In Effect

SERVICE

SERVICE ADDRESS WALTER REED HOSPITAL

ADMIN OFFICE, DEH

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WALTER REED ARMY MED CTR FACILITIES ENGR DIV

GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Apr 2 EPP1 -<del>-05</del>5 312629.73 Due After Apr 20 315756.03

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO ON YOUR REMITTANCE

#### 102511160180000000000315756030420930312629730000**251116018**;

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

0521116019 WARTER REELE HOSP TPARE

** KWH USED KW DEMAND* DESCRIPTION AMOUNT R919 1000 6609 8970 5377000 Kilowatt Hour Meter R921 1000 T8E9 8960 2579000 Kilowatt Hour Meter R920 1000 3814 5923 2109000 Kilowatt Hour Meter 3337204 Off-Pk \$.030320/KWH 101184.03 BEPPLBL Interm \$.039900/KWH 72615.53 1854464 On-Pk \$.046201/KWH 85678.49 Total KWH Billed 7011606 Non-Residential-GT 3A *Maximum Demand 12158.4 Distribution Charge 79029.60 *On-Peak Demand 12158.4 Production & Transm .00 *Curtailment Demand 0.0 Curtailment Credit-CS .00 *Curtailment Demand 0.0Curtailment Penalty-CS .00

> Discount 16925.38CF Fuel Cost Adjustment at \$.00271050- per KWH 19004.95CF DC Gross Receipts Adjustment 10052.41 NET CURRENT BILL 312629.73

> > Prior Bill Amount 298646.31 Payments Through Mar 30 378646.31CR

PLEASE PAY THE AMOUNT NOW DUE 312629.73

After Apr 20, 1993, a Late Payment Charge of \$3126.30 will be added, increasing the amount due to \$315756.03.

Take a look at this month's issue of Lines and meet some of your neighbors who are Powerwatching with Pepco. Learn how you can save big money and energy without sacrificing comfort and convenience.

The scheduled meter read date for your next bill is Apr 22, 1993.

Period Days KWH-Used Avg KWH per Day % Change Mar 92 29 6611146 227970.6 Mar 93 DE. 7011606 233720.2 2.5

17 Bax 1812 Washington, DC 20067-2812 Trepnone (202) 833-7500

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noid in Applier Assertment on No. 6 343 127 380.

Actual Reading

Winter Rates In Effect

SERVICE

ADDRESS WALTER REED HOSPITAL

WALTER REED ARMY MED CTR Н 20 FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW

WASHINGTON DC 20012

Due May 19, 1993 E5.PP42EE Due After May 19 339056.22

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO ON YOUR REMITTANCE

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PREVIOUS PRESENT METER NO LAST DIGITS MULTI-PLIER KWH USED DESCRIPTION AMOUNT R919 1000 8970 1418 2448000 Kilowatt Hour Meter R921 1000 8960 1571 5717000 Kilowatt Hour Meter R920 1000 5923 8255 000SEE5 Kilowatt Hour Meter 3777345 HWX\PLEDED.\$ A9-710 114529.10 Interm \$.039899/KWH 1795853 71654.53 1889171 On-Pk \$.046201/KWH 87281.61 Total KWH Billed 7462369 Non-Residential-GT 3A *Maximum Demand 12988.9 Distribution Charge 84427.85 *On-Peak Demand P.88P51 Production & Transm .00 *Curtailment Demand 0.0 Curtailment Credit-CS .00 *Curtailment Demand 0.0Curtailment Penalty-CS .00 Discount 17894.66CF

Fuel Cost Adjustment at \$.00202260- per KWH 15093.39CF DC Gross Receipts Adjustment 10794.19 NET CURRENT BILL 335699.23

> Prior Bill Amount 312629.73 Payments Through Apr 28 312629.73CF

PLEASE PAY THE AMOUNT NOW DUE 335699.23

After May 19, 1993, a Late Payment Charge of \$3356.99 will be added, increasing the amount due to \$339056.22.

Before replacing your hot water heater, call Pepco at (202) 833-7500 for information on high-efficiency electric water heaters.

The scheduled meter read date for your next bill is May 21, 1993.

Period Days KWH-Used Avg KWH per Day % Change Apr 92 29 6913851 238408.7 EP 79A 31 7462369 240721.6 1.0

SEE REVERSE SIDE FOR IMPORTANT INFORMATION Potomac Electric Power Company

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P.O. Box 2812, Washington, DC 20067-2312 T- ephone (202) 333-7500

PO. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

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Pepco s Taxpaver identification No. 53-0 127880)

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Actual Reading

Winter Rates In Effect

SERVICE

ADDRESS WALTER REED HOSPITAL

Н WALTER REED ARMY MED CTR 50 FACILITIES ENGR DIV

GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Jun 17, 1993 354248.44 Due After Jun 17 357790.92

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

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PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT.

ACCOUNT NO.

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Actual Reading ACTUAL Reading

WALTER REED HOSPITAL

App-25-to-May

METER NO. MULTI- LAST DIGITS PLIER	METER READING PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919 1000	1418 3788	2370000	Kilowatt Hour Meter	300000000000000000000000000000000000000
R921 1000	1 1571 4131	25F0000	Kilowatt Hour Meter	
R920 1000	8255 719	2464000	Kilowatt Hour Meter	
		3558914	HWX\P1E0E0.¢ A9-770	107906.27
		1899539	Interm \$.039900/KWH	75791.61
		882E005	On-Pk \$.046200/KWH	92566.53
Tota	l KWH Billed	7462041	Non-Residential-GT 3A	
*Ma	ximum Demand	14576.2	Distribution Charge	94745.30
*On	-Peak Demand	14576.2	Production & Transm	.00
*Curtai	lment Demand	0.0	Curtailment Credit-CS	.00
*Curtai	lment Demand	0.0	Curtailment Penalty-CS	.00

Discount

18550.49CR 9601.41CR

Fuel Cost Adjustment at \$.00128670- per KWH DC Gross Receipts Adjustment

Ed.OPELL 354248.44

NET CURRENT BILL

PLEASE PAY THE AMOUNT NOW DUE 354248.44

335699.23

Prior Bill Amount Payments Through May 27

335699.23CR

After Jun 17, 1993, a Late Payment Charge of \$3542.48 will be added, increasing the amount due to \$357790.92.

Please note that summer billing rates will be applied to your next bill, and will be in effect for June-Oct. bills. Rates are higher in the summer because it costs more to meet the higher demand for electricity created by heavy air conditioner use. The situation is just the opposite in the winter billing months (Nov.-May) when demand for electricity diminishes and rates are lower. Call Pepco at 202-833-7500 for ways to save energy and save money on your utility bill.

*IF APPLICABLE

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Summer Rates In Effect

SERVICE ADDRESS WALTER REED HOSPITAL

WALTER REED ARMY MED CTR Н 20 FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Jul 19, 1993 573720.82 Due After Jul 19 579475.74

> Payment may be made payable to pepco

> > AMOUNT

118854.88

86288.32

124602.28

104903.50

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

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PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO.

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WALTER REED HOSPITAL

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Summer Rates In: Effect SERVICE

PERSO May 25 to Jun 24 1993 300s

And the second second second e a ser encretario (c. e.) METER READING PREVIOUS PRESENT MULTI-PLIER DESCRIPTION R919 1000 378B 6521 2733000 Kilowatt Hour Meter R921 1000 4FIF 7042 2911000 Kilowatt Hour Meter R920 1000 719 35**6**5 2846000 Kilowatt Hour Meter 4211725 Off-Pk \$.028220/KWH 2121670 Interm \$.040670/KWH 2231843 On-Pk \$.055829/KWH Total KWH Billed 8565238 Non-Residential-GT 3A *Maximum Demand 16139.D Distribution Charge *On-Peak Demand 16139.0 Production & Transm 167845.60 *Curtailment Demand

2139.0 Curtailment Credit-CS 17742.36CR *Curtailment Demand O.OCurtailment Penalty-CS .00 Discount 30124.73CR Fuel Cost Adjustment at \$.00032490- per KWH 2782.85CR

DC Gross Receipts Adjustment 18333.7D NET CURRENT BILL 570178.34

> Prior Bill Amount 354248.44 Payments Through Jun 28 354248.44CR Late Payment Charge 3542.48 TOTAL BALANCE FORWARD 3542.48

PLEASE PAY THE AMOUNT NOW DUE 573720.82

After Jul 19, 1993, a Late Payment Charge of \$5754.92 will be added, increasing the amount due to \$579475.74.

If you have electric central air conditioning, you could have saved at least \$7 on this month's electric bill by belonging to Pepco's Kilowatchers Club. Our members are earning monthly credits on their summer bills and making a world of difference by conserving energy. See this month's issue of LINES for details. If you are already a member of the Kilowatchers Club, you do not need to reapply.

SEE REVERSE SIDE FOR IMPORTANT INFORMATION Potomac Electric Power Company

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P.O. Box 2812, Wasnington, DC 20067-2812 Telephone (202) 833-7500

= 0. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

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Summer Rates In Effect

SERVICE

ADDRESS WALTER REED HOSPITAL

Н 20---

WALTER REED ARMY MED CTR FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW

WASHINGTON DC 20012

Due Aug 18, 1993 E5.41E044 Due After Aug 18 646717.37

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE.

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WALTER REED HOSPITAL

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METER NO MULTI- LAST DIGITS PLIER	METER PREVIOUS	READING PRESENT	KWH USED KW DEMANO*	DESCRIPTION	AMOUNT
R919 100 R921 100 R920 100	0 652: 0 704: 0 356: al KWH	9845 579	3324000 3537000 3537000 5464387 2375138 2465009 10304534 17108.6	Kilowatt Hour Meter Kilowatt Hour Meter Kilowatt Hour Meter Off-Pk \$.028219/KWH Interm \$.040669/KWH On-Pk \$.055828/KWH Non-Residential-GT 3A Distribution Charge	154205.00 96596.86 137617.60
*Curta	ilment	Demand Demand	17108.6 3108.6	Production & Transm Curtailment Credit-CS	177929.44 25784.90CR
*Curta	ilment	Demand	0.00	Curtailment Penalty-CS	.00

33877.74CR Discount Fuel Cost Adjustment at \$.00017790 per KWH 1833.18 DC Gross Receipts Adjustment 20588.89 NET CURRENT BILL 640314.23

> Prior Bill Amount 573720.82 Payments Through Jul 28 573720.82CR

PLEASE PAY THE AMOUNT NOW DUE 640314.23

After Aug 18, 1993, a Late Payment Charge of \$6403.14 will be added, increasing the amount due to \$646717.37.

Thank you for being a prompt paying customer.

Remember, summer billing rates are in effect through October-use energy wisely. To save energy and money on your electric bill, call Pepco Powerwatchers at (202) 833-7500.

*IF APPLICABLE

P.O. Box 2812 Washington, DC 20067-2812 T≑lephone (∠02) 833-7500

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Actual Reading - 'DE OF 211

Summer Rates In Effect

SERVICE

ADDRESS WALTER REED HOSPITAL

Н 20 WALTER REED ARMY MED CTR FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Sep 14, 1993 606413.09 Due After Sep 14 612477.22

> Payment may be made payable to pepco

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AMOUNT PAID

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

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PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

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WALTER REED HOSPITAL

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METER NO MULTI- LAST CIGITS PLIER	METER REPREVIOUS	EADING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
×Ma	579 6923 1 KWH B ximum D -Peak D lment D	emand emand emand	2914000 3140000 2929000 4341565 2313370 2407001 9061936 16290.4 16290.4		122518.96 94084.76 134379.60 105887.60 169420.16 18998.18CR

Discount 31314.56CR Fuel Cost Adjustment at \$.00120680 per KWH 10935.94 DC Gross Receipts Adjustment 19498.81 NET CURRENT BILL 606413.09

> Prior Bill Amount 640314.23 Payments Through Aug 25 640314.23CR

PLEASE PAY THE AMOUNT NOW DUE 60.E1410.09

After Sep 16, 1993, a Late Payment Charge of \$6064.13 will be added, increasing the amount due to \$612477.22.

Pepco has a number of Powerwatchers options to help residential and commercial customers save energy and money. For information on how you can become a Pepco Powerwatcher, call (202) 833-7500.

AMOUNT PAID



P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

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Summer Rates In Effect

SERVICE

SERVICE

WALTER REED HOSPITAL ADDRESS

Н WALTER REED ARMY MED CTR 20 FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW

WASHINGTON DC 20012

Due Oct 29, 1993 627670.02 Due After Oct 29 633946.72

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

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PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

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Aug 24 to Sep 23-1993-30

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PREVIOUS PRESENT MULTI-PLIER KWH USED KW DEMANO* DESCRIPTION AMOUNT R919 1000 573L 2759 2977000 Kilowatt Hour Meter R921 1000 3719 EBBJ 3164000 Kilowatt Hour Meter R920 1000 9852 2777 2925000 Kilowatt Hour Meter 4608000 Off-Pk \$.028220/KWH 130037.76 2206027 Interm \$.040670/KWH 89719.12 2251999 On-Pk \$.055829/KWH 125727.38

Total KWH Billed *Maximum Demand 16359.9 *On-Peak Demand 16327.2 *Curtailment Demand *Curtailment Demand

9066026 Non-Residential-GT 3A Distribution Charge 106339.35 Production & Transm 169802.88 2327.2 Curtailment Credit-CS 0.0Curtailment Penaltv-CS

.00 31081.33CF

36245.97

19303.43CR

Discount Avg. Fuel Cost Adjustment at \$.00399800 per KWH DC Gross Receipts Adjustment

20182.32 NET CURRENT BILL 627670.02

PO.E14104 Prior Bill Amount Payments Through Oct 7 406413.09CF

PLEASE PAY THE AMOUNT NOW DUE 627670.02

After Oct 29, 1993, a Late Payment Charge of \$6276.70 will be added, increasing the amount due to \$633946.72.

Good News! Your new Save & Save Again coupons, worth more than \$240 in savings on energy-efficient lighting and other conservation products, will be mailed in October. Washington Post will contain a special circular on Sunday, October 24, featuring store locations where you can purchase the coupon products. So watch your mail and the Post this month, and save and save! Questions? Call (202) 457-SAVE.

*IF APPLICABLE

2 Page l of

³ O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

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Edited Reading TYPE OF

Summer Rates In Effect

SERVICE ADDRESS WALTER REED HOSPITAL

WALTER REED ARMY MED CTR 20 FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Nov 16, 1993 1111954.78 Due After Nov 16 1126212.68

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE >.

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PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

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Summer Rates In Effect

SERVICE Sep 23 to Oct 22 1993 Care Search Search

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METER NO MULTI- LAST DIGITS PLIER	METER READING PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
*Ma *On *Curtai	6883 9265	12260.7 12236.2 0.0 0	Kilowatt Hour Meter Kilowatt Hour Meter Kilowatt Hour Meter Off-Pk \$.028220/KWH Interm \$.040670/KWH On-Pk \$.055832/KWH Non-Residential-GT 3A Distribution Charge Production & Transm Curtailment Credit-CS Intailment Penalty-CS	102686.43 68420.16 92004.74 79694.55 127256.48

Discount

23503.12CF 22153.66

Fuel Cost Adjustment at \$.00317890 per KWH DC Gross Receipts Adjustment

15571.86 484284.75

NET CURRENT BILL

Prior Bill Amount 627670.02 TOTAL BALANCE FORWARD 627670.02

PLEASE PAY THE AMOUNT NOW DUE 1111954.78

After Nov 16, 1993, a Late Payment Charge of \$14257.90 will be added, increasing the amount due to \$1126212.68.

Good News! Your new Save & Save Again coupons, worth more than \$240 in savings on energy-efficient lighting and other conservation products, will be mailed in October. Washington Post will contain a special circular on Sunday, October 24, featuring store locations where you can purchase the coupon products. So watch your mail and the Post this month, and save and save! Questions? Call (202) 457-SAVE.

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

Peoco's Taxpaver identification No. 53-01278801

Actual Reading בייסב הב

Winter Rates In Effect

SERVICE ADDRESS

WALTER REED HOSPITAL

H WALTER REED ARMY MED CTR Ol FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 50075

Due Jan 3, 1994 466779.93 Due After Jan 3 471471.94

> Payment may be made payable to pepco

AMOUNT PAID

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE.

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WALTER REED HOSPITAL

Type Actual Reading BELLA Winter Rates InsEffect SERVICE Oct 22 to : Nov=29=1993 3

The state of the state of -- Wasan The second second METER READING DESCRIPTION AMOUNT **PREVIOUS** PRESENT R919 1000 962 **E408** 0006682 Kilowatt Hour Meter R921 1000 9265 Kilowatt Hour Meter **P4E5** 3104000 R920 1000 5037 5037 0 Meter Exchange R920 1000 5037 7846 2809000 Kilowatt Hour Meter F-PK 1 38782 0 Meter Exchange 4807 0 4807000 Off-Pk \$.030320/KWH 145748.24 TERM ľ 82325 0 0 Meter Exchange D 08 1000 1994 1994000 Interm \$.039900/KWH 79560.60 N-PK 1 47867 0 0 Meter Exchange D 05 1000 5700 5100000 On-Pk \$.046199/KWH 97019.80 Total KWH Billed 8901000 Non-Residential-GT 3A *Maximum Demand 256.5 Distribution Charge 166725.00 *On-Peak Demand 256.5 Production & Transm .00 *Curtailment Demand .0.0 Curtailment Credit-CS .00 *Curtailment Demand O. OCurtailment Penalty-CS .00

> Discount 24452. LBCF Fuel Cost Adjustment at \$.00196800- per KWH 17517.17CF DC Gross Receipts Adjustment PS.E2841 NET CURRENT BILL 461937.08÷

> > Prior Bill Amount 1111954.78 Payments Through Dec 13 1111954.78CR Late Payment Charge 4842.85~ TOTAL BALANCE FORWARD 4842.85

PLEASE PAY THE AMOUNT NOW DUE 466779.93℃

After Jan 3, 1994, a Late Payment Charge of \$4692.01 will be added, increasing the amount due to \$471471.94.

> 2 Page l of

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

AMOUNT PAID

Pepco s Taxpayer identification No. 53-0127880)

TYPE OF SERVICE ADDRESS WALTER REED HOSPITAL

Actual Reading

Reminder Notice Winter Rates In Effect

ΠĪ

WALTER REED ARMY MED CTR FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 50015-0000

Due Jan 28, 1994 784017.65 Due After Jan 28 794215.19

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

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Winter Rates Inserfect

SERVICE NOV 25 to Dec 251193 30avs

METER NO. LAST GIGITS	MULTI- PLIER	METER REA	ADING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919 R921 R920 D 11 D 08 D 05	7000 7000 7000 7000	962 2369 7846 4807 1994 2100 1 KWH B	3167 4904 9950 9853 9710 3867	2205000 2535000 2104000 3432000 1716000 1767000 6915000	Kilowatt Hour Meter Kilowatt Hour Meter Kilowatt Hour Meter Off-Pk \$.030320/KWH Interm \$.039900/KWH On-Pk \$.046201/KWH Non-Residential-GT 3A	104058.24 68468.40 81638.53
	*Ma: *On- irtai:	ximum D -Peak D Iment D Iment D	emand emand emand	0.08P11 0.0EP11 0.0	Distribution Charge Production & Transm Curtailment Credit-CS Curtailment Penalty-CS	77610.00 .00 .00

Discount 16588.76CF Fuel Cost Adjustment at \$.00183520- per KWH 12690.41CF DC Gross Receipts Adjustment 10049.71 NET CURRENT BILL 312545.71

> Prior Bill Amount 951064.69 Payments Through Jan 7 484284.76CF 4692.01 Late Payment Charge TOTAL BALANCE FORWARD 471471.94

PLEASE PAY THE AMOUNT NOW DUE 784017.65

After Jan 28, 1994, a Late Payment Charge of \$10197.54 will be added, increasing the amount due to \$794215.19.

Just a reminder that a past due amount remained on your account at the time we prepared your bill.

The scheduled meter read date for your next bill is Jan 27, 1994.

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

AMOUNT PAID 22.24.21%

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= -occisi Taxpayer identification No. 53-0127880)

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Reminder Notice Winter Rates In Effect

Н

ADDRESS WALTER REED HOSPITAL

FACILITIES ENGR DIV

WALTER REED ARMY MED CTR

GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012-0000 Due Mar 3, 1994 Due After Mar 3

E2.IIE842 575166.38

Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

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Actual Reading Winter Rates Insertect

SERVICE PERIOD Dec 29 to Jan 223199 293

SERVICE. ADDRESS

WALTER REED HOSPITAL

METER NO. MULTI- LAST DIGITS PLIER	METER READING PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919 100		5737000		
8921 100	0 4904 72 <b>96</b>	2392000	Kilowatt Hour Meter	
001 OSP8	0 9950 2014	2064000	Kilowatt Hour Meter	
D JT 700	PE711 PE58 C	3495000	Off-Pk \$.030320/KWH	105968.40
D 08 700	0 3710 5248	1538000	Interm \$.039900/KWH	P73PP·50
D 05 100	3867 5488	1251000	On-Pk \$.046202/KWH	74894.79
Tota	al KWH Billed	6654000	Non-Residential-GT 3A	
<b>×</b> M∶	aximum Demand	12690.0	Distribution Charge	82485.00
<b>*</b> 0ı	n-Peak Demand	12690.0	Production & Transm	.00
*Curta:	ilment Demand	0.0	Curtailment Credit-CS	.00
*Curta:	ilment Demand	0.0	Curtailment Penalty-CS	.00

Discount 16235.72CF Fuel Cost Adjustment at \$.00221620 per KWH 14746.60 DC Gross Receipts Adjustment 10738.39 NET CURRENT BILL dd.EdPEEE

> Prior Bill Amount 784017.65 Payments Through Feb 10 471471.94CF Late Payment Charge 8891.20

87089.04CF Adjustment 234347.87 TOTAL BALANCE FORWARD

568311.53

PLEASE PAY THE AMOUNT NOW DUE

After Mar 3, 1994, a Late Payment Charge of \$6854.85 will be added, increasing the amount due to \$575166.38.

Just a reminder that a past due amount remained on your account at the time we prepared your bill.

The scheduled meter read date for your next bill is Feb 25, 1994.

AMOUNT PAID

P.O. Box 2812 Washington, DC 20067-2812 Telephone (±12) 833-7500

Popolo si Taxpaver identification No. 53-3127880).

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Winter Rates In Effect

SERVICE

WALTER REED HOSPITAL

Н WALTER REED ARMY MED CTR 01FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012-0000

Due Mar 31, 1994 257043.3h Due After Har 31 260395.77

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

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METER NOL MULTI- METER READING LIST DISTS PLIER PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION		AMOUNT
R919 1000 5298 7543 R921 1000 7296 9582 R920 1000 2014 4235 D 11 1000 11734 15202 D 08 1000 5248 6890 D 05 1000 5488 7204 Total KWH Billed *Maximum Demand *On-Peak Demand *Curtailment Demand *Curtailment Demand	I : I	Kilowatt Hour Off-Pk \$.03037 Interm \$.03997 On-Pk \$.04620 Non-Residential	Meter Meter 20/KWH 30/KWH 32/KWH GT 3A Charge Transm	105149.76 65515.80 79282.84 78130.00 .00

Discount 16403.92Ci Avg. Fuel Cost Adjustment at \$.00187330 per KWH 12787.26 DC Gross Receipts Adjustment 10779.46

335241.20

Prior Bill Amount 1037783.47

Payments Through Mar 10 1117981.31C; TOTAL BALANCE FORWARD 78197.84CF

NET CURRENT BILL

PLEASE PAY THE AMOUNT NOW DUE 257043.36

After Mar 31, 1994, a Late Payment Charge of \$3352.41 will be added, increasing the amount due to \$260395.77.

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P.O. Box 2812 Wasnington, DC 20067-2812 Telephone (202) 833-7500 Pepco's Taxpayer identification No. 53-0127880)

AMOUNT PAID

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Winter Rates In Effect

3:44 ADDRESS

WALTER REED HOSPITAL

Н WALTER REED ARMY MED CTR FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due May 3, 1994 EB. LLOPAE E veM rettA eud B4.14884E

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE. > 1 ACCOUNT NO.

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1	LAST DISITS	PLIER PREVIOUS	PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
	RILL	1000 7543	9957	2414000	Kilowatt Hour Meter	
	R921	1000 9582	2032	2450000	Kilowatt Hour Meter	
	R920	1000 4235	6634	2399000	Kilowatt Hour Meter	
	D 11	1000 15202	18928	3726000	Off-Pk \$.030543/KWH	113806.94
	D 08	1000 6890	8654	1764000	Interm \$.040195/KWH	70905.74
	D 05	1000 7204	9051	1847000	On-Pk \$.046549/KWH	85976.64
		Total KWH	Billed	7337000	Non-Residential-GT 3A	
		*Maximum	Demand	12990.0	Distribution Charge	85214.40
		*On-Peak	Demand	12990.0	Production & Transm	.00
	*Cı	ırtailment	Demand	0.0	Curtailment Credit-CS	.00
	*Cı	ırtailment	Demand	0.0	Curtailment Penalty-CS	.00

17795.1AC Discount 10954.12 Avg. Fuel Cost Adjustment at \$.00149300 per KWH DC Gross Receipts Adjustment 11596.76 360659.42 NET CURRENT BILL



Prior Bill Amount 591007.02 Payments Through Apr 13 591007.02C Late Payment Charge 3352.41 3352.41 TOTAL BALANCE FORWARD

PLEASE PAY THE AMOUNT NOW DUE 364011.83

After May 3, 1994, a Late Payment Charge of \$4829.85 will be added, increasing the amount due to \$368841.68.

Pepco Gatekeepers look out for the safety and well-being of senior customers. In the April issue of LINES, learn about the Gatekeeper program and how to participate. And, if you're a Pepco customer age 55 or more, find out how you can receive a free subscription to SENIORLINES, Pepco's special newsletter for senior citizens.

*IF APPLICABLE

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500 Pepco's Taxpayer identification No. 53-01278801

AMOUNT PAID

Actual Reading

Winter Rates In Effect

SERVICE ADDRESS

WALTER REED HOSPITAL

Н WALTER REED ARMY MED CTR 01 FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW

WASHINGTON DC 20012

Due Jun 1, 1994 743789.26 Due After Jun 1 754220.18

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE. > 1 COUNT NO.

PERIOD.

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PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO.

SERVICE

ADDRESS

0251116018



TYPE OF Actual Reading Winter Rates InzEffect SERVICE

WALTER REED HOSPITAL

Mar 28 to Apr 26-1994-29

METER NO. LAST DIGITS	MULTI- PLIER	METER RE	EADING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000	9957	2223	2266000	Kilowatt Hour Meter	
R921	1000	2032	4452	2420000	Kilowatt Hour Meter	
R920	1000	6634	9073	2439000	Kilowatt Hour Meter	
D 11	1000	18928	22358	3430000	Off-Pk \$.031067/KWH	106560.66
D 08	1000	8654	10495	1841000	Interm \$.040827/KWH	75162.96
D 05	1000	9051	10976	1925000	On-Pk \$.047258/KWH	90972.15
	Tota	1 KWH	Billed	7196000	Non-Residential-GT 3A	
	*Ма	ximum !	Demand	13380.0	Distribution Charge	88977.00
	*On	-Peak	Demand	13380.0	Production & Transm	.00
*C	urtai	lment 1	Demand	0.0	Curtailment Credit-CS	.00
*C	urtai	.lment	Demand	0.0	Curtailment Penalty-CS	.00
					Discount	18016.27CR

Avg. Fuel Cost Adjustment at \$.00332260 per KWH 23909.44 12211.49 DC Gross Receipts Adjustment

NET CURRENT BILL 379777.43

Prior Bill Amount Payments Through May 11 TOTAL BALANCE FORWARD

621055.19 257043.36CF 364011.83

PLEASE PAY THE AMOUNT NOW DUE 743789.26

After Jun 1, 1994, a Late Payment Charge of \$10430.92 will be added, increasing the amount due to \$754220.18.

Summer rates (June - October) go into effect soon. Summer rates are greater because of the higher costs to produce electricity, so energy conservation is even more important during the summer. One way to save energy is to use high-efficiency light bulbs and appliances. Please use your Save & Save Again coupons for energy-efficient lighting and water heater conservation products. Haven't received your coupons or want up to 10 additional Call (202) 457-SAVE. coupons?

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500 Peoco's Taxpaver identification No. 53-01273301

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Actual Reading

Summer Rates In Effect

TOPE OF SERVICE **ADDRESS** 

WALTER REED HOSPITAL

Due Jun 29, 1994 530024.67 Due After Jun 29 535324.92

Н WALTER REED ARMY MED CTR 01 FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE + -CCCUNT NO.

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WALTER REED HOSPITAL 

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METER NO MULTI- LAST DOTS PLIER	METER READING PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919 1000	2223 4496	2273000	Kilowatt Hour	Meter
R921 1000	4452 6846	2394000	Kilowatt Hour	Meter
R920 1000	9073 1526	2453000	Kilowatt Hour	Meter
D 11 1000	22358 25805	3447000	Off-Pk \$.0289	64/KWH 99841.32
D 08 1000	10495 12314	1819000	Interm \$.0416	64/KWH 75788.09
D 05 1000	10976 12900	1924000	On-Pk \$.0571	15/KWH 109890.64
Tota	al KWH Billed	7190000	Non-Residential	-GT 3A
*Ma	aximum Demand	14050.0	Distribution (	Charge 93432.50
*Or	n-Peak Demand	14050.0	Production &	Transm 148930.00
*Curtai	ilment Demand	0.0	Curtailment Cre	dit-CS .00
*Curtai	ilment Demand	0.0	Curtailment Pena.	lty-CS .00

Discount 26313.35C Fuel Cost Adjustment at \$.00317920 per KWH 22858.44 DC Gross Receipts Adjustment 17422.85 NET CURRENT BILL 541850.49 Prior Bill Amount 743789.26

Payments Through Jun 8 755615.08C TOTAL BALANCE FORWARD 11825.82C

PLEASE PAY THE AMOUNT NOW DUE 530024.67

After Jun 29, 1994, a Late Payment Charge of \$5300.25 will be added, increasing the amount due to \$535324.92.

Consider installing a ceiling fan to help you save money and energy this summer. Read all about it in the June issue of LINES. And check out our tips on how you can prepare for possible power outages during the summer storm season.

The scheduled meter read date for your next bill is Jun 24, 1994

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AMOUNT PAID

P.O. Box 2812 Washington, DC 20067-2812 Elephone (202) 833-7500 Pipopis Taxpaver identification No. 53-0127380)

Actual Reading FRECE

Duplicate Bill Summer Rates In Effect

SERVICE ADDRESS

WALTER REED HOSPITAL

WALTER REED ARMY MED CTR Ħ 01 ATT: HSHLL PW/BUDGET DIRECTORATE OF PUB WORKS

WASHINGTON DC 20307-5001

Due Aug 8, 1994 669843.62 Due After Aug 8 676431.00

Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE 🍑 Á ACCOUNT NO.

10251116018001326687067643100080894066984363000**025111601**8

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO. 0251116018

WALTER REED HOSPITAL

Actual Reading ACTUAL Reading May #253 to = Jun #2 18 19949 33 

METER NO LAST BIGITS	MULTI- PLIER	METER RI PREVIOUS	EADING PRESENT	KWH USED KW DEMAND	DESCRIPTION	AMOUNT
R919	1000	4496	7518	3022000	Kilowatt Hour Meter	
R921	1000	6846	105	3259000	Kilowatt Hour Meter	
R920	1000	1526	4720	3194000	Kilowatt Hour Meter	
D 11	1000	25805	30717	4912000	Off-Pk \$.029146/KWH	143166.17
D 08	1000	12314	14589	2275000	Interm \$.041882/KWH	95283.53
D 05	1000	12900	15275	2375000	On-Pk \$.057383/KWH	136285.01
	Tota	1 KWH	Billed	9562000	Non-Residential-GT 3A	
	*Ma	ximum	Demand	16270.0	Distribution Charge	108792.06
	*On	-Peak	Demand	16270.0	Production & Transm	173058.56
*C	urtai	lment 1	Demand	2270.0	Curtailment Credit-CS	18828.96CR
*C	urtai	lment	Demand		Curtailment Penalty-CS	.00
					Dicacunt	32484 13CE

Discount 32684.13Ch Fuel Cost Adjustment at \$.00295770 per KWH 28281.52 DC Gross Receipts Adjustment 23222.99 656576.75 NET CURRENT BILL

> 530024.67 Prior Bill Amount 530024.67CF Payments Through Jul 18 5281.05 Late Payment Charge 11825.82 Adjustment TI)TAL BALANCE FORWARD 13266.87

Conservation Rebate 3840.00CF

PLEASE PAY THE AMOUNT NOW DUE

After Aug 8, 1994, a Late Payment Charge of \$6587.38 will be added, increasing the amount due to \$676431.00.

Information from the American Red Cross states that if you are caught in a storm, rather than lying down, squat low to the ground, making yourself the smallest possible target for lightning.

FIG. Box 2812, Washington, DC 20067-2812 fe ephone (202) 833-7500 Proces Terpaver identification No. 63-0127380)

AMOUNT PAID

Actual Reading

Reminder Notice

SERVICE **ADDRESS** 

. TE DE

WALTER REED HOSPITAL

Summer Rates In Effect

Н 01 WALTER REED ARMY MED CTR ATT: HSHLL DPW/BUDGET ROOM C 028 BUILDING 1 WASHINGTON DC 20307-5001

Due Aug 31, 19941341780.91 Due After Aug 311358276.60

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE -- -CCCUNT NO

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

±CCCUNT NO. ▶

0251116018

国中的中央中国 **对新教**教授 2012年11日 meor Actual Reading WALTER REED HOSPITAL SERMOE June 27 to Jule 28 1.994

SERVICE ADDRESS ....

			***	
METER NO MULTI- METER READIN LAST DIGITS PLIER PREVIOUS PR	NG KWH USED RESENT KW DEMAND*	DESCRIPTION		TRUOMA
R919 1000 7518	650 3132000	Kilowatt Hour	Meter	
R921 1000 105	3487 3382000	Kilowatt Hour	Meter	
R920 1000 4720 8	3283000	Kilowatt Hour	Meter	
D 11 1000 30717 35	5592 4875000	Off-Pk \$.02919	5/KWH	142328.89
D 08 1000 14589 17	7035 2446000	Interm \$.04194	5/KWH	102599.11
D 05 1000 15275 17	7836 2561000	On-Pk \$.05746	3/KWH	147165.27
Total KWH Bil	lled 9882000	Non-Residential-	GT 3A	
*Maximum Den	mand 15310.0	Distribution (	harge	102577.00
∗On-Peak Dem	mand 16360.0	Production & 1	ransm	174234.00
*Curtailment Dem	mand 0.0	Curtailment Cred	lit-CS	.00
*Curtailment Dem	mand 0.00	Curtailment Penal	ty-CS	.00
		Dis	count	33289.24CR
Fuel Cos	st Adjustment	at-\$.00310470 pe	r KWH	30680.65
	DC Gros	ss Receipts Adjus	tment	24430.86
		NET CURRENT	BILL	690726.54
		Prior Bill A	mount	1189962.47
	Pa	yments Through A	ug 10	530024.67CR
	,		tment	11825.82
		TOTAL BALANCE FO	RWARD	651054.37
		Concenyation F	ahata	20709.2506

Conservation Rebate 20709.25CR

PLEASE PAY THE AMOUNT NOW DUE 1341780.91

After Aug 31, 1994, a Late Payment Charge of \$16495.69 will be added, increasing the amount due to \$1358276.60.

Just a reminder that a past due amount remained on your account at the time we prepared your bill.

The scheduled meter read date for your next bill is Aug 24, 1994.

7. Bux 13.13. 1. Ishinatan IBO 20067-2812 ednone (202 833-7500 Quer l'emmachanian 634 (LTDE)

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-MOUNT P

67

Actual Reading

WASHINGTON

Reminder Notice Summer Rates In Effect

SERVICE **ACDRESS** 

01

WALTER REED HOSPITAL

WALTER REED ARMY MED CTR

DC 20307-5001

ATT: HSHLL DPW/BUDGET

RCOM C 028 BUILDING 1

Due Oct 3, 19941240221... Due After Oct 31240221.:

> Payment may be made payable to pepco

#### 20251116018060583729124022139100394124022139000025111601

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO.

SERVICE

ADDRESS

0251116018

WALTER REED HOSPITAL

TYPE OF REL SERVICE

PERIOD.

Actual Reading

Summer Rates In Effect Jul 28 to Aug 24 1994

DESCRIPTION **AMOUNT** PRESENT R919 1000 650 3209 2559000 Kilowatt Hour Meter R921 1000 3487 Kilowatt Hour Meter 6250 2763000 R920 1000 8003 704 2701000 Kilowatt Hour Meter D 11 1000 35592 39616 4024000 Off-Pk \$.029195/KWH 117483.3 D 08 1000 17035 19014 1979000 Interm \$.041945/KWH 83010.4 D 05 1000 17836 19929 2093000 On-Pk \$.057465/KWH 120276.0 Total KWH Billed 8096000 Non-Residential-GT 3A *Maximum Demand 15980.0 Distribution Charge 107066.0 *On-Peak Demand 15980.0 Production & Transm 170187.0 *Curtailment Demand 0.0 Curtailment Credit-CS . ( *Curtailment Demand 0.0Curtailment Penalty-CS .[

> Discount 29773.:

Fuel Cost Adjustment at \$.00539730 per KWH 43696.1

DC Gross Receipts Adjustment 22438.0

> NET CURRENT BILL 634384.

Prior Bill Amount 1360570.

Payments Through Sep 12 669843.L

TOTAL BALANCE FORWARD 605837.2

Conservation Rebate 84889.2

PLEASE PAY THE AMOUNT NOW DUE 1240221.3

Just a reminder that a past due amount remained on your accour at the time we prepared your bill.

The scheduled meter read date for your next bill is Sep 26, 15

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

AMOUNT PAID

(Peoco's Taxpayer (dentification No. 53-0127880)

Actual Reading 7.05 OF

Reminder Notice Summer Rates In Effect

SERVICE WALTER REED HOSPITAL

Н WALTER REED ARMY MED CTR 01 ATT: HSHLL DPW/BUDGET ROOM C 028 BUILDING 1 WASHINGTON DC 20307-5001

Due Oct 26, 19941192887.23 Due After Oct 261207543.89

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

802511160180545557351207543891026941192887230000251116018

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

0251116018

TYPE OF Actual Reading

Summer Rates In Effect SERVICE Aug 24 to Sep 26 1994 33AYS

SERVICE WALTER REED HOSPITAL ADDRESS 

	MULTI- METER I PLIER PREVIOUS	READING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
R919	1000 3209	6125	2916000	Kilowatt Hour Meter	
R921	1000 6250	9380	3130000	Kilowatt Hour Meter	
R920	1000 704	3790	3086000	Kilowatt Hour Meter	
D 11	1000 39616	44310	4694000	Off-Pk \$.029286/KWH	137472.60
D 08	1000 19014	21174	2160000	Interm \$.042036/KWH	90799.66
D 05	1000 19929	22186	2257000	On-Pk \$.057556/KWH	129904.60
	Total KWH	Billed	9111000	Non-Residential-GT 3A	
	*Maximum	Demand	15270.0	Distribution Charge	102309.00
	*On-Peak	Demand	15220.0	Production & Transm	162093.00
*Сu	rtailment	Demand	0.0	Curtailment Credit-CS	.00
*Cu	rtailment	Demand	0.0	Curtailment Penalty-CS	.00

30943.59CR Discount 32798.68 Fuel Cost Adjustment at \$.00359990 per KWH 22895.93 DC Gross Receipts Adjustment NET CURRENT BILL 647329.88

> Prior Bill Amount 1240221.39 Payments Through Oct 5 690726.54CR TOTAL BALANCE FORWARD 545557.35

> > Conservation Rebate 3937.50CR

PLEASE PAY THE AMOUNT NOW DUE 1192887.23

After Oct 26, 1994, a Late Payment Charge of \$14656.66 will be added, increasing the amount due to \$1207543.89.

Just a reminder that a past due amount remained on your account at the time we prepared your bill.

The scheduled meter read date for your next bill is Oct 25, 1994.

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

Depco's Taxpayer identification No. 53-0127880)

Edited Reading

Winter Rates In Effect

SERVICE

14TH & ELDER STS NW ADDRESS

Н WALTER REED ARMY MED CTR 20 FACILITIES ENGR DIV

GA AVE & BUTTERNUT ST NW WASHINGTON DC 50075

Due Feb 25, 1992 38249.1£ Late Payment Charge .00 Due After Feb 25 34269.1E

Payment may be made payable to peoco

AMOUNT PAI

302511240120000000000003826718022572003826718000**0025112401**2

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT Effedere ACCOUNT NO. 0251124012 ITTHE ELDER STSINWE METER READING PREVIOUS KW DEMAND* AMOUNT N965 1000 2901 335P 425000 Kilowatt Hour Meter N964 1000 2284 2742 458000 Kilowatt Hour Meter 468425 Off-Pk \$.028329/KWH 13270.48 204821 Int-Pk \$.037259/KWH 7631.6E On-Pk \$.043272/KWH 209665 9072.73 Total KWH Billed ≈ 882911 Non-Residential-GT 3A *Maximum Demand 1698.2 Distribution Charge 10274.11 *On-Peak Demand 1588.4 Production & Transm .00 2012.45 Discount Fuel Cost Adjustment at \$.00135670- per KWH 1197.84 DC Gross Receipts Adjustment 1230.52 NET CURRENT BILL 34.P458E Prior Bill Amount 41853.33 Payments Through Feb 3 41853.3E PLEASE PAY THE AMOUNT NOW DUE 34.P458E

You may have noticed that PEPCO's bill format looks different. See Lines Plus for an explanation on how your bill has changed.

Practicing energy conservation today means saving money and energy without sacrificing comfort and convenience. For energysaving tips or descriptions of the wide array of Powerwatchers options available to you, call us at (202) 833-7500.

P.O. Box 2812 Wasnington, DC 20067-2812 Telephone (202) 833-7500

AMOUNT PAID

`E OF

Actual Reading

Peoco's Taxpaver Identification No. 53-0127880)

Winter Rates In Effect

RVICE ORES

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ICE

14TH & ELDER STS NW

WALTER REED ARMY MED CTR FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 50075

Due Mar 19, 1992 39156.39 Late Payment Charge 391.56 Due After Mar 19 39547.95

Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

202511240120000000000039547950319920039156390000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

0251124012

TYPE OF Actual Reading Winter Rates In Effect

SERVICE Jan 27 to Feb 25 1992

14TH & ELDER STS NW تون ، DESCRIPTION AMOUNT 7000 335F 3528 302000 Kilowatt Hour Meter 4 1000 2742 3300 558000 Kilowatt Hour Meter 402573 Off-Pk \$.028329/KWH 11404.89 219825 Int-Pk \$.037260/KWH 8190.68 53950T On-Pk \$.043261/KWH 10304.92 tal KWH Billed 860599 Non-Residential-GT 3A Maximum Demand 1725.0 Distribution Charge 10436.25 *On-Peak Demand Production & Transm 1698.2 .00 Discount 2016.84CR Fuel Cost Adjustment at \$.00049100- per KWH 422.55CR DC Gross Receipts Adjustment 1259.04 NET CURRENT BILL PE. 421PE Prior Bill Amount 38249.18 Payments Through Feb 27 38269.18CR PLEASE PAY THE AMOUNT NOW DUE 39156.39

er Mar 19, 1992, a Late Payment Charge of \$391.56 will be ed, increasing the amount due to \$39547.95.

cticing energy conservation today means saving money and rgy without sacrificing comfort and convenience. For energying tips or descriptions of the wide array of Powerwatchers ions available to you, call us at (202) 833-7500.

iod Days KWH-Used Avg KWH per Day % Change 91 31 957PPF 2555.4 92 30 a60599 28686.6 8.2

² O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

AMOUNT PAID

Pepco's Taxpaver identification No. 53-0127880)

Actual Reading TYPE OF

Winter Rates In Effect

BILL

SERVICE ADDRESS 14TH & ELDER STS NW

> Due Apr 20, 1992 37413.14 Late Payment Charge 374.13

Due After Apr 20 37787.27

Payment may be made payable to peoco

37413.14

H ---WALTER REED ARMY MED CTR FACILITIES ENGR DIV 20 GA AVE & BUTTERNUT ST NW WASHINGTON DC SUUTS

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

402511240120000000000000037787270420920037413140000**251124012** 

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT Actual Reading 0251124012 20 Winter Rates 11 Mar Ch. to Mar - 1115 METER READING KWH USED DESCRIPTION **PREVIOUS** PRESENT AMOUNT N965 1000 3628 EED4 405000 Kilowatt Hour Meter N964 1000 DOEE 9719 419000 Kilowatt Hour Meter 373950 Off-Pk \$.028329/KWH 10594.00 214384 Int-Pk \$.037250/KWH 7987.95 291395 On-Pk HWX\E45E40.¢ 10011.04 Total KWH Billed 819729 Non-Residential-GT 3A *Maximum Demand 1660.7 Distribution Charge 10047.24 *On-Peak Demand 1642.0 Production & Transm .00 Discount 1932.01CR Fuel Cost Adjustment at \$.00060760- per KWH 498.07CR DC Gross Receipts Adjustment 1202.99 NET CURRENT BILL 37413.14 Prior Bill Amount 9915L.39 Payments Through Mar 30 39156.39CR

After Apr 20, 1992, a Late Payment Charge of \$374.13 will be added, increasing the amount due to \$37787.27.

PEPCO wants to help you shed some light on energy efficiency through use of compact fluorescent and halogen light bulbs. this month's issue of Lines for information. Later this month, PEPCO will begin mailing coupons to every residential customer for up to 75 percent off the purchase price of these energyefficient bulbs. Be sure to watch for them.

PLEASE PAY THE AMOUNT NOW DUE

Period	Days	KWH-Used	Avg KWH per Day	% Change
Mar 🖫	29	786619	27124.8	n ondinge
Mar 92	29	819729	28266.5	4.2

O. Box 2812 Washington, DC 20067-2812

Repco's Taxpaver identification No. 53-0127880)

Telephone (202) 833-7500

Actual Reading

Winter Rates In Effect

TYPE OF 3!LL

50 F. E. E. E.

SERVICE 14TH & ELDER STS NW ADDRESS

> Due May 19, 1992 36475.43 Late Payment Charge 354.75

Due After May 19 36840.18

Payment may be made

AMOUNT PAID

GA AVE & BUTTERNUT ST NW WASHINGTON DC 50015

WALTER REED ARMY MED CTR

FACILITIES ENGR DIV

payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE > •

302511240120000000000000000000000019920036475430000**025112**4012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT THE PERSON Actual Reading 0251124012 /*.£2// Mar-25-ton Apr-214191 THTH & DELDERS STANK PERCO METER READING KWH USED DESCRIPTION AMOUNT N965 1000 EE04 4437 404000 Kilowatt Hour Meter N964 1000 9719 4132 Kilowatt Hour Meter 413000 374437 Off-Pk \$.028329/KWH 10607.80 215224 Interm \$.037260/KWH 8019.25 \$.043265/KWH 227939 On-Pk 9861.81 Total KWH Billed 817600 Non-Residential-GT 3A *Maximum Demand E.PEdI Distribution Charge 9917.77 *On-Peak Demand 1650.6 Production & Transm .00 Discount IDEE. OSPI Fuel Cost Adjustment at \$.00144780- per KWH 1357.E811 DC Gross Receipts Adjustment 1172.85 NET CURRENT BILL 35475.43 Prior Bill Amount 37413.14 Payments Through Apr 28 37413.14C

PLEASE PAY THE AMOUNT NOW DUE 36475.43

After May 19, 1992, a Late Payment Charge of \$364.75 will be added, increasing the amount due to \$36840.18.

PEPCO's Kilowatchers Club is a great way to save money and conserve energy. If you're not a member, see this month's issue of Lines for details on how to take advantage of this Powerwatchers opportunity, or call (202) 833-7500 for information. Current members need not reapply.

Period Days KWH-Used Avg KWH per Day % Change Apr 91 30 811786 27059.5 Apr 92 29 817600 28193.l 4.2

² O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

12114

Febco's Taxpaver identification No. 53-0127880)

Actual Reading TYPE OF

Winter Rates In Effect

B:LL

Н

50

SERVICE ADDRESS 14TH & ELDER STS NW

> Due Jun 18, 1992 43784.44 Late Payment Charge

437.84 Due After Jun 18 44222.28

Payment may be made payable to peoco

43784.44

AMOUNT PAID

GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

WALTER REED ARMY MED CTR

FACILITIES ENGR DIV

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

70251124012000000000044222280618920043784440000**251124012** 

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT 1 11/11/11 Actual Resolution 0251124012 20/ Winter Rates T. SERVICE LATH & ELDER STS NW PERMOR APP 24 to May 21 · 1000年 (1000年) 1000年 (1000年) METER READING DESCRIPTION AMOUNT PRESENT KW DEMAND* N965 1000 4437 4902 465000 Kilowatt Hour Meter N964 1000 4132 4571 439000 Kilowatt Hour Meter 448880 Off-Pk \$.028329/KWH 12716.77 220923 Interm \$.037259/KWH 8231.59 237110 On-Pk #WX\145EPO.\$ 10257.81 Total KWH Billed 906913 Non-Residential-GT 3A *Maximum Demand 2121.4 Distribution Charge 12834.47 *On-Peak Demand 1671.4 Production & Transm .00 2202.03C Discount Fuel Cost Adjustment at \$.00059320 per KWH 537.9A DC Gross Receipts Adjustment 1407.85

> Prior Bill Amount 36475.43 Payments Through May 28 36475.43C

NET CURRENT BILL

PLEASE PAY THE AMOUNT NOW DUE 43784.44

After Jun 18, 1992, a Late Payment Charge of \$437.84 will be added, increasing the amount due to \$44222.28.

Please note that summer billing rates will be applied to your next bill, and will be in effect through your October bill. Sa, the electricity you use after the service period shown above will be priced on summer rates. Rates are higher in the summer because it costs more to meet the higher demand for electricity created by heavy air conditioner use. The situation is just the opposite in the winter billing months (November-May) when demand for electricity diminishes, and rates are lower.

Period	Days	KWH-Used	Avg KWH per Day	% Change
May 91	29	950982	32792.5	
May 72	32	906913	0.14E85	-4.E1

SEE REVERSE SIDE FOR IMPORTANT INFORMATION Potomac Electric Power Comp

*:F APPLICABLE

Telephone (202) 833-7500

= 0. Box 2812 Washington, DC 20067-2812

Fedos Taxpaver identification No. 53-0127880) Actual Reading

Summer Rates In Effect

TYPE OF BILL

SERVICE

ADDRESS

14TH & ELDER STS NW

Н WALTER REED ARMY MED CTR 20 FACILITIES ENGR DIV

GA AVE & BUTTERNUT ST NW WASHINGTON DC 50075

Late Payment Charge Due After Jul 20

Due Jul 20, 1992

80532.14 805.32 81337.46

AMOUNT PAID

Payment may be made

payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

40251124012000000000000000133746072092008053214000**025112401**2

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT TYPEOF Actual Reading 0251124012 Stance Cabe DESCRIPTION KW DEMAND AMOUN1 4902 N965 1000 5365 463000 Kilowatt Hour Meter N964 1000 4571 5211 640000 Kilowatt Hour Meter 515205 Off-Pk \$.026380/KWH 13591.11 287565 Interm \$.038019/KWH 10933.22 301071 On-Pk \$.052254/KWH 15732.30 Total KWH Billed 1103841 Non-Residential-GT 3A *Maximum Demand 2584.8 Distribution Charge 15638.04 *On-Peak Demand 2584.8 Production & Transm 25072.56 Discount 4048.36 Fuel Cost Adjustment at \$.00092750 per KWH 1023.81 DC Gross Receipts Adjustment 2589.46 NET CURRENT BILL 80532.14 43784.44 Prior Bill Amount Payments Through Jun 26 43784.44

PLEASE PAY THE AMOUNT NOW DUE 80532.14

After Jul 20, 1992, a Late Payment Charge of \$805.32 will be added, increasing the amount due to \$81337.46.

Thank you for the prompt manner in which you pay your bill.

See the June issue of LINES to learn if you qualify for Pepco's Time-Of-Use rates, or call TOU Services at (202) 331-6248 *** T schedule a free presentation on energy-related topics for your organization, call Pepco's Speakers Bureau at (202) 872-2336.



Period Days KWH-Used Avg KWH per Day % Change Jun 91 35 1490347 46573.3 Jun 72 3 1103841 38063.5 18.3-

SEE REVERSE SIDE FOR IMPORTANT INFORMATION * IF APPLICABLE Potomac Flectric Power

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

Pepco's Taxpaver identification No. 53-0127880)

TYPE OF

Actual Reading

Summer Rates In Effect

BILL

SERVICE ADDRESS

14TH & ELDER STS NW

Н WALTER REED ARMY MED CTR FACILITIES ENGR DIV

GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Aug 18, 1992 107405.95 Due After Aug 18 108480.01

> Payment may be made payable to pepco

AMOUNT PAID

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE > 1

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PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCCURT ...

0251124012

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Summer Rates In Effect

SERVICE SERVICE Jun. 24 to July 24 1992 14TH & ELDER STS NW -ADDRESS: The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s ---METER READING
PREVIOUS PRESENT DESCRIPTION AMOUNT' LAST DIGITS N965 1000 5**365** P101 654000 Kilowatt Hour Meter N964 1000 Kilowatt Hour Meter 5211 FORI 870000

738451 Off-Pk \$.027422/KWH 20250.30 381525 Interm \$.039521/KWH 15078.50 E38E04 On-Pk \$.054296/KWH 21928.54 Total KWH Billed 1523839 Non-Residential-GT 3A Distribution Charge *Maximum Demand 3018.8 19033.53 *On-Peak Demand B. BIDE Production & Transm 30479.81

> 5338.52C Discount 2520.23

Avg. Fuel Cost Adjustment at \$.00165390 per KWH DC Gross Receipts Adjustment 3453.56

NET CURRENT BILL 107405.95

Prior Bill Amount 40532.14 Payments Through Jul 28 80532.14C

PLEASE PAY THE AMOUNT NOW DUE 107405.95

After Aug 18, 1992, a Late Payment Charge of \$1074.06 will be added, increasing the amount due to \$108480.01.

In the market for a new home? Look for a Pepco Energy Saver Home... "Energy Efficiency With All the Comforts of Home.(sm)" See details in LINES.

Period	Days	KWH-Used	Avg KWH per Day	% Change
Jul 91	0E	1570391	52346.4	
Jul 92	30	PE8E521	50794.6	3.D-

AMOUNT FAID



The state of the Alemandan DD 10067. Alemandan DD 10067.

12277

Actual Reading

Summer Rates In Effect

SERVICE 14TH & ELDER STS NW

H WALTER REED ARMY MED CTR
20 FACILITIES ENGR DIV
--- GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Due Sep 16, 1992 101739.54 Due After Sep 16 102756.94

Payment may be made payable to **pepco** 

PLEASE WRITE THE ASSOCIATIVE ON THE PROTECTION &

702511240120000000000102756940916920101739540000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH INDUSTRIAL MODIF

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> 0251124012

TYPE OF Actual Reading

SERVICE ADDRESS 14TH & ELDER STS NW

Summer Rates In Effect
SERVICE Jul 24 to Aug 24 1992 31

METER PEADING KWH USED.  LIGHT PREJORS PREJORS PREJORS KW DEMAND DESCRIPT	<b>EN</b>	AMOUNT
1011	Hour Meter	
	Hour Meter 328219/KWH	18540.31
	040670/KWH 055880/KWH	13142.47 19217.24
Total KWH Billed 1324040 Non-Resident	· · · · · · · · · · · · · · · · ·	18530 30
*On-Peak Demand 2992.0 Production	ion Charge n & Transm	19570.20 31116.80
Fuel Cost Adjustment at \$.0014807	Discount 7D per KWH	5079.35CF 1960.51
DC Gross Receipts A NET CUR	Adjustment RRENT BILL	4E.175E 42.PE7101
Prior Bi Payments Throu	ill Amount igh Aug 26	107405.95 107405.95CF

PLEASE PAY THE AMOUNT NOW DUE 101739.54

After Sep 16, 1992, a Late Payment Charge of \$1017.40 will be added, increasing the amount due to \$102756.94.

Are you thinking about buying a new air conditioner or heat pump? Pepco offers rebates on qualifying high efficiency units. For more details, call Pepco's Residential Energy Services at (202)872-2465.

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

Pepco's Taxpayer identification No. 53-0127880)

TYPE OF

Actual Reading

Summer Rates In Effect

BILL

SERVICE ADDRESS

14TH & ELDER STS NW

Н WALTER REED ARMY MED CTR 20 FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW

WASHINGTON DC 20012

Due Oct 19, 1992 111135.97 Due After Oct 19 112247.33

> Payment may be made payable to pepco

AMOUNT PAID

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE >

# 40521154015000000000115545331016450111732450000527154015

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT Actual Read 0251124012 ,20/ THE THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF T Person AUG-245 ton STR A PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART METER READING MOUS PRESENT KWH USED **PREVIOUS** DESCRIPTION AMOUNT N965 1000 6542 7448 906000 Kilowatt Hour Meter N964 1000 P995 7612 230000 Kilowatt Hour Meter Off-Pk \$.028220/KWH 794748 22427.79 410222 Interm \$.040670/KWH 16683.73 431528 On-Pk \$.055868/KWH 24108.69 Total KWH Billed 1636498 Non-Residential-GT 3A *Maximum Demand E.LaPS Distribution Charge 19378.45 *On-Peak Demand 2981.3 Production & Transm 31005.52

> 5680.21C Discount Fuel Cost Adjustment at \$.00022090- per KWH 361.50C DC Gross Receipts Adjustment 3573.50 NET CURRENT BILL 111135.97

> > Prior Bill Amount 101739.54 Payments Through Sep 25 101739.540

PLEASE PAY THE AMOUNT NOW DUE 111135.97

After Oct 19, 1992, a Late Payment Charge of \$1111.36 will be added, increasing the amount due to \$112247.33.

Don't forget, summer rates are in effect June through October. Please use energy wisely.

Residential and commercial customers can save money, save energy with Pepco's Powerwatchers programs. Call 202/833-7500 for information.

3 0 SEF 1992

Period Davs KWH-Used Avg KWH per Day % Change Sep 91 **SE** 1625938 50810.6 Sep 92 DE 1636498 54549.9 7.4

SEE REVERSE SIDE FOR IMPORTANT INFORMATION Potomac Electric Power Company

*IF APPLICABLE

P.O. Box 2812

P.O. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

(Pepco's Taxoayer Identification No. 53-0127880)

Actual Reading TYPE OF

Summer Rates In Effect

SERVICE

14TH & ELDER STS NW ADDRESS

WALTER REED ARMY MED CTR 20 FACILITIES ENGR DIV

GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Nov 16, 1992 67831.41 Due After Nov 16 68509.72 2 9 OCT 1992

Payment may be made

AMOUNT PAID

ADNAME OF DEH payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT ACCOUNT NO. 0251129012 27 100 - 500 - 500 KWH USED KW DEMAND* DESCRIPTION AMOUNT N965 1000 7448 7869 421000 Kilowatt Hour Meter N964 1000 7612 8024 412000 Kilowatt Hour Meter 45E8PE Off-Pk \$.028219/KWH 11240.70 210512 Interm \$.040669/KWH **8561.**52 225119 On-Pk \$.055912/KWH 12586.94 Total KWH Billed 833955 Non-Residential-GT 3A *Maximum Demand E.40E5 Distribution Charge 14990.95 *On-Peak Demand 230L.3 Production & Transm 23985.52 Discount 3558.28C Fuel Cost Adjustment at \$.00257450- per KWH 2147.020 DC Gross Receipts Adjustment 2181.08

NET CURRENT BILL 67831.41 Prior Bill Amount 111135.97

Payments Through Oct 25 111135.970

PLEASE PAY THE AMOUNT NOW DUE 67831.41

After Nov 16, 1992, a Late Payment Charge of \$678.31 will be added, increasing the amount due to \$68509.72.

Pepco's new Custom Rebate Program offers commercial customers cash rebates for improvements in energy efficiency to any existing electrical equipment. If you're replacing worn equipment, remodeling or looking to lower overhead, call Pepco at 202/872-4630 for additional information about this comprehensive program.

The scheduled meter read date for your next bill is Nov 20, 1992

SEE REVERSE SIDE FOR IMPORTANT INFORMATION Potomac Flectric Power C

*IF APPLICABLE

PO. Box 2812 Washington, DC 20067-2812

Telephone (202) 833-7500

Pepco's Taxpayer identification No. 53-01278801

Actual Reading

Winter Rates In Effect

TYPE OF

SERVICE

ADDRESS: ..

155023

SERVICE

ADDRESS 14TH & ELDER STS NW

Due Dec 15, 1992 Due After Dec 15

38495.66 38880.62

AMOUNT'

AMOUNT PAID

Payment may be made payable to pepco

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Н WALTER REED ARMY MED CTR 50 FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

DESCRIPTION

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

# 7025112401200000000000038880L21215920038495LL00**002511**24012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

0251124012

20.

KWH USED

Actual Reading Winter-Rates In Effect Per 25 - 10 - Nov 2021 992 29

14TH & SECDER STSTNW 

METER READING
PREVIOUS PRESENT

12127.42 8459.44 10350.36	Kilowatt Hour Meter Kilowatt Hour Meter Off-Pk \$.030319/KWH Interm \$.039900/KWH On-Pk \$.046283/KWH Non-Residential-GT 3A		Billed	Total	N965 N964	
10951.20 00.	Distribution Charge Production & Transm	1684.8 1674.1	Demand Demand			
2094.42	Discount			 Ε,		

Fuel Cost Adjustment at \$.00303500- per KWH 2536.13 DC Gross Receipts Adjustment 1237.79 NET CURRENT BILL 38495.66

> Prior Bill Amount 67831.41 Payments Through Nov 24 67831.41.

PLEASE PAY THE AMOUNT NOW DUE 38495.66

After Dec 15, 1992, a Late Payment Charge of \$384.96 will be added, increasing the amount due to \$38880.62.

Pepco has filed its Productivity Improvement Plan for 1992 with the D.C. Public Service Commission. The plan sets forth cost-effective productivity improvement goals for Pepco. more information or to obtain a copy, call 202/833-7500, or visit the Pepco Customer Service Center at 1900 Pennsylvania Ave., N.W. Hours are 8:30 a.m. to 5:15 p.m.

The scheduled meter read date for your next bill is Dec 22, 199;

Period Days KWH-Used Avg KWH per Day % Change IP vok 27 753271 27898.9 Nov 92 29 835629 28814.8 **E.E** 

SEE REVERSE SIDE FOR IMPORTANT INFORMATION Potomac Electric Power Company

*IF APPLICABLE

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

AMOUNT PAIL

Pepco s Taxoayer identification No. 53-0127880)

TYPE OF

Actual Reading

SERVICE ADDRESS

14TH & ELDER STS NW

Winter Rates In Effect

ADMIN OFFICE DEL

Н 20 WALTER REED ARMY MED CTR FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Jan 19, 1993 40033.8 Due After Jan 19 4**0434.**23

Payment may be made

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

ACCOUNT NO

payable to pepco

302511240120000000000004043421011993004003387000**00** 

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT 0251124012 200 METER READING KWH USED KW DEMAND* DESCRIPTION PRESENT AMOUNT N965 1000 8746 8289 457000 Kilowatt Hour Meter N964 1000 8437 8909 472000 Kilowatt Hour Meter 459534 Off-Pk \$.030319/KWH TO.EEPEL 231905 Interm \$.039900/KWH 9253.01 EOPPES On-Pk \$.046276/KWH 11101.92 Total KWH Billed AE TB-LEEF Non-Residential-GT 3A *Maximum Demand 1711.6 Distribution Charge 11125.40 *On-Peak Demand Production & Transm 1711.6 .00 2270.67 Discount Fuel Cost Adjustment at \$.00472020- per KWH 51.4PE4

DC Gross Receipts Adjustment 1287.26 NET CURRENT BILL 40033.87

> Prior Bill Amount 38495.6L Payments Through Dec 29 38495.66

PLEASE PAY THE AMOUNT NOW DUE 40033.87

After Jan 19, 1993, a Late Payment Charge of \$400.34 will be added, increasing the amount due to \$40434.21.

The D.C. Energy Office offers the Low-Income Home Energy Assistance Program (LIHEAP) and the Complementary Energy Assistance Program (CEAP) to help qualified customers with thei electric bills. Call the D.C. Energy Office at (202) 724-2100. **** Pepco has filed its 1992 Productivity Improvement Plan wit. the D.C. Public Service Commission. For more information or to obtain a copy, call 202/833-7500, or visit our Customer Service Center at 1900 Pennsylvania Avenue, N.W.

PEESI

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ADDRESS.

# Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812

Felephone (202) 833-7500

Pepco's Taxpayer (dentification No. 53-0127880)

Actual Reading TYPE OF

Winter Rates In Effect

SERVICE

14TH & ELDER STS NW ADDRESS

WALTER REED ARMY MED CTR 50 FACILITIES ENGR DIV

Due Feb 18, 1993 42016.91 Due After Feb 18 42437.08

GA AVE & BUTTERNUT ST NW WASHINGTON DC 50075

Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

802511240120000000000042437080218930042016910000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

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14TH & ELDER STS NW

1693597 Actual Rates In Actual Reading.

SERVICE DECYCLE to Van File

DESCRIPTION AMOUNT N965 1000 8746 9218 472000 Kilowatt Hour Meter N964 1000 P0P8 BBEP 479000 Kilowatt Hour Meter 507884 HWX\PIEDED.\$ A9-770 15399.04 218510 Interm \$.039900/KWH 8718.55 226248 On-Pk \$.046281/KWH 10471.20 Total KWH Billed 952642 Non-Residential-GT 3A *Maximum Demand 1746.4 Distribution Charge 11351.60 *On-Peak Demand 1746-4 Production & Transm .00

Discount 2297.02CR Fuel Cost Adjustment at \$.00312550- per KWH 2977.48CR DC Gross Receipts Adjustment 1351.02 NET CURRENT BILL 42016.91

> Prior Bill Amount 40033.87 Payments Through Jan 28 40033.87CR

PLEASE PAY THE AMOUNT NOW DUE 42016.91

After Feb 18, 1993, a Late Payment Charge of \$420.17 will be added, increasing the amount due to \$42437.08.

f Thank you for being a prompt paying customer.

Winter rates are in effect now through the billing month of May. Even though winter rates are lower than those in summer, always remember to use energy wisely.

AMOUNT PAID

AMOUNT PAID



PrD. Box 2812 | Washington, DC 20067-2812 | Telephone (202, 833-7500

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Proposition (payer (dentification No. 63-2127880)

Winter Rates In Effect
WAR 5 1993

SERVICE 14TH & ELDER STS NW

ADMIN OFFICE, DEH

H WALTER REED ARMY MED CTR 2D FACILITIES ENGR DIV

Due Mar 19, 1993 Due After Mar 19

38246.45 38628.91

FACILITIES ENGR DIV
GA AVE & BUTTERNUT ST NW
WASHINGTON DC 20012

Payment may be made payable to **pepco** 

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

# P05217540150000000000000039P5947703743500003857P472000527754075

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT Edited Reading ATOCU IT NO. 0251124012 20. A ROLL OF ROLL OF E ADDER SESTING Water to February 1993 unit in METER READING KWH USED KW DEMAND* DESCRIPTION AMOUNT PLIER PRESENT N965 1000 9218 9626 408000 Kilowatt Hour Meter N964 1000 BBEP 9790 402000 Kilowatt Hour Meter 401289 HWX\PIEDED. \$ A9-770 12167.08 198870 HWX\PP8997/KWH 7934.91 210207 On-Pk \$.046288/KWH 9730.26 Total KWH Billed 810366 Non-Residential-GT 3A *Maximum Demand 1770.6 Distribution Charge 11508.90 *On-Peak Demand 1770.L Production & Transm .00 Discount 2067.06CF Fuel Cost Adjustment at \$.00278570- per KWH 2257.43CF DC Gross Receipts Adjustment 1229.79 NET CURRENT BILL 3824L.45 Prior Bill Amount 42016.91 Payments Through Feb 25 42016.91CF

PLEASE PAY THE AMUUNT NOW DUE 38246.45

After Mar 19, 1993, a Late Payment Charge of \$382.46 will be added, increasing the amount due to \$38628.91.

Are you finding it difficult to pay your electric bill? See the February issue of Lines for Pepco programs which can make paying your electric bill easier and more convenient. Or call us at (202) 833-7500 anytime and speak to one of our customer service representatives. They also can refer you to energy assistance programs in your area that provide financial assistance for qualified customers. And while you're talking with us, ask about Pepco's money-saving Powerwatchers options.

The scheduled meter read date for your next bill is Mar 24, 1993.

AMOUNT PAID

7.0 Box 3612 Washington 6.0 0006742812 T--ephone 112 833-7700

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Edited Reading

Winter Rates In Effect

SERVICE

ADDRESS 14TH & ELDER STS NW

H WALTER REED ARMY MED CTR 20 FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

EPP1 .05 rqA aud 40249.37 Due After Apr 20 40651.86

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNTING IN YOUR REMITTANCE.

# 20251124012000000000004065186042093004024937000**0251124012**

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

Alexander Statement Tolking the Desile 20 Description Edited Readings Winter Rates 214 E

ADDRES	s THIH	ELDER	STS NW	PENCE Feb 24-to Mars	26. <b>3973</b> 1: 30,
METER NO. Last digits	MULTI- ME PLIER PREVIO	TER READING US PRESE	KWH USED NT KW DEMAND*	DESCRIPTION	AMOUNT
N965 N964		?90 2:	59 433000 14 424000 393564 225604 237855 ed 857023	Kilowatt Hour Meter Kilowatt Hour Meter Off-Pk \$.030319/KWH Interm \$.039900/KWH On-Pk \$.046277/KWH Non-Residential-GT 3A	11932.86 9001.60 11007.32
	*Maximu *On-Pea		nd 1770.6	Distribution Charge Production & Transm	11508.90 00.
	Fuel	. Cost /		Discount t \$.00271050- per KWH s Receipts Adjustment NET CURRENT BILL	2172.540 2322.970 1294.20 40249.37
			Pa	Prior Bill Amount yments Through Mar 30	3 <b>8246.</b> 45 3 <b>8246.</b> 45(

PLEASE PAY THE AMOUNT NOW DUE 40249.37

After Apr 20, 1993, a Late Payment Charge of \$402.49 will be added, increasing the amount due to \$40651.86.

Take a look at this month's issue of Lines and meet some of your neighbors who are Powerwatching with Pepco. Learn how you can save big money and energy without sacrificing comfort and convenience.

The scheduled meter read date for your next bill is Apr 22, 1993

P.C. Box ∠812 Washington CC 20067-2313

1773

Talephone (202) 833-7500

Pando si Takballer (sent/loation no. 53-0127350).

Edited Reading - ----

Winter Rates In Effect

SERVICE

SERVICE 14TH & ELDER STS NW

Н WALTER REED ARMY MED CTR 20 FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW

WASHINGTON DC 20012

Due May 19, 1993 15.4022E Due After May 19 35861.27

> Payment may be made payable to pepco

AMOUNT PAID

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

60251124012000000000003586127051993003550621000**0251129012** 

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT 0251124012 ACCOUNT 10. METER READING KWH USED KW DEMAND* DESCRIPTION N965 1000 59 401 342000 Kilowatt Hour Meter N964 1000 214 P59 414000 Kilowatt Hour Meter 379069 Off-Pk \$.030319/KWH 11493.37 184679 HWX\PP8PEO.¢ mrstnI 7368.69 192444 On-Pk \$.046298/KWH 8909.79 Total KWH Billed 756192 Non-Residential-GT 3A *Maximum Demand 1540.2 Distribution Charge 10011.30 *On-Peak Demand 1540.2 Production & Transm .00 1889.15CR Discount Fuel Cost Adjustment at \$.00202260- per KWH 1529.47CR DC Gross Receipts Adjustment 1141.68

NET CURRENT BILL 35506.21

> Prior Bill Amount 40249.37 Payments Through Apr 28 40249.37CR

PLEASE PAY THE AMOUNT NOW DUE

35506.21

After May 19, 1993, a Late Payment Charge of \$355.06 will be added, increasing the amount due to \$35861.27.

Before replacing your hot water heater, call Pepco at (202) 833-7500 for information on high-efficiency electric water heaters.

The scheduled meter read date for your next bill is May 21, 1993.

P.O. Box 2612 Washington, DC 20067-2612 Telephone (202) 833-7500

AMOUNT PAID

Pageo's Taxpaver identification No. 53-0 (27380)

191114138

Actual Reading

Summer Rates In Effect

SERVICE

ADDRESS 14TH & ELDER STS NW

Н WALTER REED ARMY MED CTR FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW

WASHINGTON DC 20012

Due Jul 23, 1993 BE. PP11P1 BE. PPLIPI ES LUL 38

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

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PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO.

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Actual Reading Summer Rates In Effect

Apr 26 to Jun 24 1993 59

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METER NO LAST DIGITS	MULTI- PLIER	METER R PREVIOUS	EADING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
	7000	401	1650	1249000	Kilowatt Hour Meter	
N964	1000	P59	P59	0	Meter Exchange	
N964	1000	658	2007	1379000	Kilowatt Hour Meter	
F-PK	ŀ	79069	0	0	Meter Exchange	
D II	70	0	10235	1230027	Off-Pk \$.028219/KWH	34711.36
TERM	ŀ	84679	0	0	Meter Exchange	
D DA	10	0	55622	679551	Interm \$.040670/KWH	27637.34
N-PK	Ţ	92444	0	0	Meter Exchange	
D 05	10	_	57970	718459	On-Pk \$.055877/KWH	40145.98
	Total	KWH I	Billed	2628037	Non-Residential-GT 3A	
			Demand	5471.3	Distribution Charge	35563.45
	*0n-	Peak I	Demand	5471.3	Production & Transm	56901.52
_	_				- Discount	9747.98CR
F	lvg. F	uel Co	ost Adj	ustment a	t \$.00006280- per KWH	165.02CR
				DC Gros	s Receipts Adjustment	6147.73

BEASE PAY THE AMOUNT NOW DUE 191194.38

NET CURRENT BILL 191194.38

Remember, summer billing rates are in effect through October-use energy wisely. To save energy and money on your electric bill, call Pepco Powerwatchers at (202) 833-7500.

The scheduled meter read date for your next bill is Jul 26, 1993.

2043 - C. C. C.

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

Pepcois Taxpaver Identification No. 53-012T330+

TYPE OF

Actual Reading

Summer Rates In Effect

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Ol

SERVICE 14TH & ELDER STS NW

WALTER REED ARMY MED CTR FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW

WASHINGTON DC 20012

Due Aug 30, 1993 118709.88 Due After Aug 30 118709.88

> Payment may be made payable to pepco

AMOUNT PAID

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

#### 3025112401200000000001187078808P0781102000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO.

SERVICE

ADDRESS

0251124012

14TH & ELDER STS NW

TYPEOF Actual Reading

Summer Rates In Effect SERVICE Jun 24 to Jul 2L 1993 32ave PERIOD

118709.88

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AMOUNT	DESCRIPTION	KWH USED KW DEMAND*	METER READING PREVIOUS PRESENT	MULTI- PLIER	METER NO LAST DIGITS
	Kilowatt Hour Meter	758000	1650 2408	1000	N965
	Kilowatt Hour Meter	1011000	2007 3018	1000	N964
26509.59	Off-Pk \$.028220/KWH	OPEPEP	10235 4174	10	D 11
16472.98	Interm \$.040670/KWH	405040	55622 96126	70	D 08
23742.07	On-Pk \$.055868/KWH	424960	57970 466	70	D 05
	Non-Residential-GT 3A	1769390	l KWH Billed	Total	
19987.50	Distribution Charge	3075.0	kimum Demand	*Max	
00.08P1E	Production & Transm	3075.0	-Peak Demand	*0n-	
5934.60C	Discount				
2135.30	at \$.00120680 per KWH	justment	Fuel Cost Ad		
3877.04	ss Receipts Adjustment				

Prior Bill Amount 191194.38 Payments Through Aug & 191194.380

PLEASE PAY THE AMOUNT NOW DUE 118709.88

NET CURRENT BILL

Pepco has a number of Powerwatchers options to help residential and commercial customers save energy and money. For information on how you can become a Pepco Powerwatcher, call (202) 833-7500.

The scheduled meter read date for your next bill is Aug 24, 1993

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

Pepco s Taxpayer Identification No. 53-0127880)

Actual Reading

Summer Rates In Effect

TYPE OF SERVICE

14TH & ELDER STS NW ADDRESS

Н WALTER REED ARMY MED CTR FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 50075

Due Sep 22, 1993 112834.50 Due After Sep 22 112834.50

> Payment may be made payable to pepco

AMOUNT PAID

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE.

# 90251124012000000000112834500922930112834500000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

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Actual Reading -Summer Rates Invested

PENOD: Jul 25 to Aug 29 1993 29

LHTH & ELDER STS NW 

ON RETEM CTIQUO TZAJ	MULTI- PLIER	METER R PREVIOUS	PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965			3110	702000	Kilowatt Hour Meter	
N964	7000	3018	3944	456000	Kilowatt Hour Meter	
D II	IO	4174	81PO3	774290	Off-Pk \$.028219/KWH	21850.46
D 08	10	4P75P	37951	418250	Interm \$.040670/KWH	17010.23
D 05	10	466	44037	435710	On-Pk \$.055867/KWH	24342.13
	Tota	1 KWH 1	Billed	1628250	Non-Residential-GT 3A	
	∗Ma	ximum i	Demand	2946.4	Distribution Charge	19151.60
	*On	-Peak	Demand	2935.7	<b>Production &amp; Transm</b>	85.1E20E

Discount 5644.28CF Avg. Fuel Cost Adjustment at \$.00120680 per KWH 1964.96 DC Gross Receipts Adjustment 3628.12 NET CURRENT BILL 112834.50

> Prior Bill Amount 118709.88 Payments Through Aug 31 118709.88C

PLEASE PAY THE AMOUNT NOW DUE 112834.50

Looking for ways to hold the line on business expenses? Pepco is helping a lot of businesses tighten their belts these days. Our Powerwatchers programs pay cash rebates for energy efficient improvements that trim the fat out of your energy consumption. Whether you run a new or old business, big or small, Pepco can give you cash now so you can enjoy the savings later. Call Commercial Energy Services at (202) 872-4630 to learn more.

The scheduled meter read date for your next bill is Sep 24, 1993.

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

Papeo si Taxpaver identification No. 53-0127880)

Actual Reading - >= OF

Summer Rates In Effect

SERVICE

14TH & ELDER STS NW **ADDRESS** 

Н WALTER REED ARMY MED CTR FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW

WASHINGTON DC 20012-0000

Due Oct 27, 1993 114236.09 Due After Oct 27 114236.09

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE.

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AMOUNT PAID

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SERVICE Aug 24 to Sep 24 13 PERSON -

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> 5554.48C Discount

Fuel Cost Adjustment at \$.00317890 per KWH 5027.94 3673.19 DC Gross Receipts Adjustment NET CURRENT BILL 114236.09

> Prior Bill Amount 112834.50

112834.50C Payments Through Oct 5

PLEASE PAY THE AMOUNT NOW DUE 114236.09

Good News! Your new Save & Save Again coupons, worth more than \$240 in savings on energy-efficient lighting and other conservation products, will be mailed in October. And, The Washington Post will contain a special circular on Sunday, October 24, featuring store locations where you can purchase the coupon products. So watch your mail and the Post this month, and save and save and save! Questions? Call (202) 457-SAVE.

The scheduled meter read date for your next bill is Oct 25, 1993

#### Potomac Electric Power Company

FID Box 2812 Washington, SC 20067-2812 Teprone (202, 833-7300)

Piccols Taxoaver (dentitioation No. 53-0127880)

Actual Reading

Winter Rates In Effect

SERVICE

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ADDRESS

ADDRESS 14TH & ELDER STS NW

Н WALTER REED ARMY MED CTR 01 FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

EPP1 ,55 vok aud 62697.74 Due After Nov 22 63324.72

> Payment may be made payable to pepco

> > The same that the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the

AMOUNT PAID

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14TH & ELDER STS NW

Actual Reading Winter Rates In Effect SERVICE Sep 24 to Oct 25 1993 31AYS

METER NO MULTI- METER READING KWH USED USI BIGITS PLIER PREVIOUS PRESENT KW DEMAND*	DESCRIPTION AMOUNT
N964 1000 4847 5550 703000 K D 11 10 61438 21189 578850 C D 08 10 76507 6662 306030 1 D 05 10 83812 15993 327120 C Total KWH Billed 1212000 Nor *Maximum Demand 2654.5 C	ilowatt Hour Meter ilowatt Hour Meter ff-Pk \$.030319/KWH 17550.73 nterm \$.039900/KWH 12210.60 n-Pk \$.046253/KWH 15130.47 -Residential-GT 3A istribution Charge 17254.25 roduction & Transm .00

	Discount	3107.30CR
Fuel Cost	Adjustment at \$.00135560 per KWH	1 <u>542</u> .98
	DC Gross Receipts Adjustment	5017.01
	NET CURRENT BILL	62697.74~

Prior Bill Amount 114236.09 Payments Through Oct 29 114236.09CR

PLEASE PAY THE AMOUNT NOW DUE 62697.74

After Nov 22, 1993, a Late Payment Charge of \$626.98 will be added, increasing the amount due to \$63324.72.

Don't forget to redeem those Save & Save Again coupons you received last month from Pepco. They offer big dollar savings on energy-efficient lighting and water heater conservation products at more than 200 retail locations. If you haven't received your coupons, call 202-457-S-A-V-E. Coupons expire January 31, 1994. ** Winter rates are in effect now through the billing month of May 1994. Even though winter rates are lower than those in summer, always remember to use energy wisely.

The scheduled meter read date for your next bill is Nov 23, 1993.

SEE REVERSE SIDE FOR IMPORTANT INFORMATION Potomac Electric Power Company

*IF APPLICABLE

P.O. Box 2812, Washington, DC 20067-2812 Telephone (202) 833-7500

pepco

#### Totor . Electric Power Company

P.O. Box 4812 - Washington, DC 20067-2812 T-aprione (202) 833-7500

AMOUNT PAID

Prodois Turcaiver, centification No. 63-0127880+

Actual Reading

Winter Rates In Effect

SERVICE ADDRESS

SERVICES ADDRESS:

14TH & ELDER STS NW

Н WALTER REED ARMY MED CTR FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Dec 27, 1993 49596.79 Due After Dec 27 50095.89

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

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Actual Reading Winter Rates-In Effect LETH- & ELDER STS NW 22 25 to Nov-23 1993 29

Discount

2603.27

The second second KWH USED KW DEMAND* DESCRIPTION AMOUNT N965 1000 4297 4808 511000 Kilowatt Hour Meter N964 7000 5550 6097 547000 Kilowatt Hour Meter D 11 10 21189 PE044 248500 Meter Exchange D LL 700 0 2902 290200; Off-Pk \$.030319/KWH BE.EEEdL D 08 70 PPPS 14PSP 129640 Meter Exchange D DA 100 15**1**P 151700 Interm \$.039900/KWH 10024.48 D 05 10 15993 29364 DIFEEL Meter Exchange D 05 100 0 **75FP** 152200 On-Pk \$.046269/KWH 12044.52 Total KWH Billed 1050250 Non-Residential-GT 3A *Maximum Demand 5105.0 Distribution Charge DO.EddE1 *On-Peak Demand 2185.7 Production & Transm .00

> Fuel Cost Adjustment at \$.00196800- per KWH 2066.89 DC Gross Receipts Adjustment 1574.59 NET CURRENT BILL 48969.81 Prior Bill Amount 62697.74 Payments Through Dec & 62697.74 Late Payment Charge 626.98 TOTAL BALANCE FORWARD 626.98

> > PLEASE PAY THE AMOUNT NOW DUE 49596.79

After Dec 27, 1993, a Late Payment Charge of \$499.10 will be added, increasing the amount due to \$50095.89.

Pepco wants to reward you for getting rid of your old energy-guzzling appliances. Take advantage of Pepco's Applianc Pick-Up Program by calling 1-800-487-1010, to make an appointment for us to pick up an old refrigerator, freezer or window air conditioner in working condition. We'll give you a \$35 check or credit your electric bill for each appliance up to six, (but no more than two of any type). Let us help you save energy and money. Call today!

*IF APPLICABLE

SEE REVERSE SIDE FOR IMPORTANT INFORMATION Potomac Electric Power Company Page l of

P.O. Box 2812, Washington, DC 20067-2812 Telephone (202) 833-7500

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Actual Reading

Winter Rates In Effect

SERVICE LODRESS 14TH & ELDER STS NW

Н WALTER REED ARMY MED CTR FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW

WASHINGTON DC 20012-0000

Due Feb 2, 1994 44822.48 Due After Feb 2 45273.20

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO ON YOUR REMITTANCE

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PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO >

SERVICE

0251124012

14TH & ELDER: STS" NW

TYPE OF SERVICE

Actual Readings Winter Rates In Effect

Nov 23 to Dec 28-1993

		2 200	THE SHOWING	PERSON 1101 22, 10 200	- days
METER NO. LAST DIGITS	MULTI- ME PLIER PREVIOL	TER READING US PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N964 D 11 D 08 D 05	1000 60 100 29 100 12 100 12 Total KW *Maximu	H Billed	464000 514000 490600 241700 248700 981000 169.6	Kilowatt Hour Meter Kilowatt Hour Meter Off-Pk \$.030319/KWH Interm \$.039900/KWH On-Pk \$.046273/KWH Non-Residential-GT 3A Distribution Charge Production & Transm	14874.99 9643.83 11508.25 11024.00
	Fuel	Cost Ada		Discount at \$.00183520- per KWH as Receipts Adjustment NET CURRENT BILL Prior Bill Amount	2352.55CR 1800.33CR 1425.19 44323.38

Prior Bill Amount アアロロコイ・フィ Payments Through Jan 12 112294.53CR Late Payment Charge 499.10 TOTAL BALANCE FORWARD 499.10

PLEASE PAY THE AMOUNT NOW DUE 44822.48

After Feb 2, 1994, a Late Payment Charge of \$450.72 will be added, increasing the amount due to \$45273.20.

You still have time to redeem those Save & Save Again coupons you received in the mail from Pepco. Coupons can be redeemed until January 31, 1994, at over 200 locations for big dollar savings on energy-efficient lighting and water heater conservation products. For more information, call 202-457-SAVE.

The scheduled meter read date for your next bill is Jan 27, 1994

#### Potomac Electric Power Company

9 0 Box 2810 Mishington 00 00087-8810 Teepnone - 111 - 813 - 7770

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Actual Reading 25 75

Winter Rates In Effect

SERVICE ADDRESS 14TH & ELDER STS NW

WALTER REED ARMY MED CTR 31 FACILITIES ENGR DIV

87724.91 Due Feb 22, 1994 Due After Feb 22 88826.27

GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Payment may be made payable to pepco

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AMOUNT PAID

PLEASE WRITE THE ACCOUNT NO ICM YOUR REMITTANCE.

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PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

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14TH & ELDER STS NW

TYPE OF Actual Readings RELL.

To amount a Winter Rates In Effect

SERVICE Dec 28 to Jan 27 1994 30as

The same of the same of the same of ... METER READING
PREVIOUS PRESENT AMOUNT DESCRIPTION N965 1000 Kilowatt Hour Meter 5272 5684 475000 NAPA 7000 FFII 7023 412000 Kilowatt Hour Meter D 11 100 7808 11791 DOEBPE Off-Pk \$.030320/KWH 12076.46 Interm \$.039900/KWH 8319.15 D OA 100 **EE**4E 5718 208500 10141.03 D 05 100 **3753** 5944 574700 On-Pk \$.046284/KWH Total KWH Billed 825900 Non-Residential-GT 3A Distribution Charge *Maximum Demand 1730.0 11245.00 *On-Peak Demand 1712.0 Production & Transm .00 2089.08CR Discount J830.36 Fuel Cost Adjustment at \$.00221620 per KWH 1379.51 DC Gross Receipts Adjustment NET CURRENT BILL 42902.43 94419.27 Prior Bill Amount Payments Through Feb 1 49596.79CR 44822.48 TOTAL BALANCE FORWARD

PLEASE PAY THE AMOUNT NOW DUE

87724.91

After Feb 22, 1994, a Late Payment Charge of \$1101.36 will be added, increasing the amount due to \$88826.27.

See the February issue of LINES for information about Pepco's High-Efficiency Water Heater Program and how you can receive a \$125 cash rebate on the purchase of a qualifying high-efficiency electric water heater. You'll save money on the initial cost and also on your electric bill year after year.

The scheduled meter read date for your next bill is Feb 25, 1994.

% Change Period KWH-Used Avg KWH per Day Days Feb 93 **34** 28018.9 952642 1.7-Feb 94 ΠE 825900 27530.0



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Actual Reading

Winter Rates In Effect

SERVICE ADDRESS

14TH & ELDER STS NW

FACILITIES ENGR DIV

WALTER REED ARMY MED CTR

GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Mar 22, 1994 43098.40 Due After Mar 22 49529.38

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE. > 1 - 1.0000.704.0

#### 5025112401200000000000435293803229400430984000**00251124012**

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT 1.D. 0251124012 SERVICE

14TH & ELDER STS NW ADDRESS

Actual Reading TYPE OF Winter Rates Instruct SERVICE Jan 27 to Feb 25-1994- 29 Avs PERIOD

LAST DIGITS PLIER PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965 1000 5684 6105	457000	Kilowatt Hour Meter	
N964 1000 7023 7444	421000	Kilowatt Hour Meter	
D 11 100 11791 15871	408000	Off-Pk \$.030320/KWH	12370.56
D 08 100 5718 7842	212400	Interm \$.039900/KWH	8474.76
D 05 100 5944 8175	553700	On-Pk \$.046283/KWH	10325.79
Total KWH Billed	843500	Non-Residential-GT 3A	
*Maximum Demand	1752.0	Distribution Charge	11388.00
*On-Peak Demand	1722.0	Production & Transm	.00
		Discount	2127.96CR
Fuel Cost A	djustment	at \$.00151920 per KWH	1281.44
	DC Gros	ss Receipts Adjustment	1385.81

NET CURRENT BILL 43098.40 Prior Bill Amount 87724.91 Payments Through Mar 1 87724.91CR

> PLEASE PAY THE AMOUNT NOW DUE 43098.40

After Mar 22, 1994, a Late Payment Charge of \$430.98 will be added, increasing the amount due to \$43529.38.

Check your mail by April 22, for Save & Save Again coupons that offer big dollar savings on energy-efficient lighting and water heater conservation products. The coupons can be redeemed at more than 200 retail locations. Call 202-457-SAVE for more information.

The scheduled meter read date for your next bill is Mar 28, 1994.

WALTER REED ARMY MED CTR 01---FACILITIES ENGR DIV

GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Apr 21, 1994 45299.37 45752.36 Due After Apr 21

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE.

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PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

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SERVICE ADDRESS

TYPE OF Actual Reading Winter Rates In Effect 14TH & ELDER STS NW SERVICE Feb 25 to Mar 28 1994 Blass

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METER NO. MULTI- LAST DIGITS PLIER PREVIOUS PRESI	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965 1000 6105 65 N964 1000 7444 78 D 11 100 15871 202 D 08 100 7842 100 D 05 100 8175 105 Total KWH Bill *Maximum Dema *On-Peak Dema	85 441400 98 225600 02 232700 ed 899700 nd 1728.0	Kilowatt Hour Meter Kilowatt Hour Meter Off-Pk \$.030543/KWH Interm \$.040195/KWH On-Pk \$.046628/KWH Non-Residential-GT 3A Distribution Charge Production & Transm	9068.21 10850.35
: Avg. Fuel Cost		Discount at \$.00149300 per KWH ss Receipts Adjustment NET CURRENT BILL	45299.37
		Prior Bill Amount Payments Through Apr L PAY-THE AMOUNT NOW DUE	43098.40 43098.40CR 45299.37

After Apr 21, 1994, a Late Payment Charge of \$452.99 will be added, increasing the amount due to \$45752.36.

Pepco Gatekeepers look out for the safety and well-being of senior customers. In the April issue of LINES, learn about the Gatekeeper program and how to participate. And, if you're a Pepco customer age 55 or more, find out how you can receive a free subscription to SENIORLINES, Pepco's special newsletter for senior citizens.

The scheduled meter read date for your next bill is Apr 26, 1994.

#### Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

Penco's Taxpayer identification No. 53-0127880)

TYPE OF

Winter Rates In Effect

SERVICE

Actual Reading

WALTER REED ARMY MED CTR Н Ò1 FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

14TH & ELDER STS NW

Due May 23, 1994 48663.60 Due After May 23 49150.24

> Payment may be made payable to pecco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ACCOUNT NO.

AMOUNT PAID

502511240120000000000491502405239400486636000**002511**24012

			PLEASE D	ETACH HERE AND R	ETURN THIS PART WITH YOUR PAYMENT	
ACCOU	INT NO.	025	112401	2		
				tro 🎎 😼		
METER NO LA TIDITAS	MULTI- PLIER F	METER PREVIOUS	READING PRESENT	F WH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	6557	6981	424000	Kilowatt Hour Meter	
N964	1000	7891	8318	427000	Kilowatt Hour Meter	
D 11		20285		392000	Off-Pk \$.031067/KWH	12178.36
D 08		10098	12350	225200	Interm \$.040827/KWH	9194.29
D 05		10502		233700	On-Pk \$.047337/KWH	11062.87
	Total		Billed	850900		. ***. ·
			Demand	2129.0		14157.85
	*0n-	Peak	Demand	2129.0	Production & Transm	.00
					Discount	2321.710
		Fuel	Cost A		at \$.00332260 per KWH	2827.20
				DC Gro	ss Receipts Adjustment	1564.74
					NET CURRENT BILL	48663.60
				• •	Prior Bill Amount	45299.37
				1	Payments Through May 2	45299.37
				PLEASE I	PAY THE AMOUNT NOW DUE	48663.60

After May 23, 1994, a Late Payment Charge of \$486.64 will be added, increasing the amount due to \$49150.24.

Summer rates (June - October) go into effect soon. Summer rate: are higher than winter rates, reflecting higher costs to product electricity, so energy conservation is even more important during the summer. One way to save energy is to use highefficiency light bulbs and appliances. Look in your mail for Save & Save Again coupons for energy-efficient lighting and water heater conservation products. If you haven't received your coupons or want up to 10 additional coupons, call (202) 457-SAVE.

The scheduled meter read date for your next bill is May 25, 199

#### Potomac Electric Power Company

AMOUNT PAID

pepco

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500 Pepcols Taxcaver identification No. 53-0127880)

59

Actual Reading

Summer Rates In Effect

FIRE OF SERVICE ADDRESS

Н

01

ERVICE 14TH & ELDER STS NW

Due Jun 22, 1994 78169.96 Due After Jun 22 78951.66

Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

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#### 902511240120000000000078951660622940078169960000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT - 114

ACCOUNT NO.

0251124012

WALTER REED ARMY MED CTR

GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

FACILITIES ENGR DIV

14TH & ELDER STS NW

TYPEOF Actual Reading
BULL Summer-Rates_In: Effect
SERVICE Apr 26 to May 25 1994 29
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METER NO MULTI- METER REA LAST DELTS PLIER PREVIOUS	DING KWH USED PRESENT KW DEMAND*	DESCRIPTION	AMOUNT
N965 1000 6981	7408 427000	Kilowatt Hour Meter	
N964 1000 8318	8858 540000	Kilowatt Hour Meter	
D 11 100 24205	28756 455100	Off-Pk \$.028964/KWH	13181.83
D 08 100 12350	14847 249700	Interm \$.041664/KWH	10403.68
D 05 100 12839	15478 263900	On-Pk \$.057185/KWH	15091.13
Total KWH B	illed 968700	Non-Residential-GT 3A	
*Maximum D	emand 2186.0	Distribution Charge	14536.90
*On-Peak D	emand 2186.0	Production & Transm	23171.60
		Discount	3808.37CF
Fuel C	ost Adjustment	at \$.00317920 per KWH	3079.69
	DC Gros	ss Receipts Adjustment	2513.50
		NET CURRENT BILL	78169.96
	·	Prior Bill Amount	48663.60
	F	Payments Through Jun l	48663.60Cf
•	DI EACE O	DAY THE AMOUNT NOW THE	78160 06

PLEASE PAY THE AMOUNT NOW DUE 78169.96

After Jun 22, 1994, a Late Payment Charge of \$781.70 will be added, increasing the amount due to \$78951.66.

Consider installing a ceiling fan to help you save money and energy this summer. Read all about it in the June issue of LINES. And check out our tips on how you can prepare for possible power outages during the summer storm season.

The scheduled meter read date for your next bill is Jun 24, 1994

Actual Reading

Summer Rates In Effect

SERVICE

ADDRESS 14TH & ELDER STS NW

Н WALTER REED ARMY MED CTR 01 FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Aug 8, 1994 124162.77 Due After Aug 8 125404.40

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE.

### 70251124012000000000125404400808940124162770000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCOUNT NO >

SERVICE

**ADDRESS** 

0251124012

14TH & ELDER STS NW

TYPE OF Actual Reading

Summer Rates In Effect

May 25 to Jun 27 1994

					and the second			TAYS
	METER NO. LAST DIGITS	MULTI- PLIER	METER PREVIOUS	READING PRESEN	KWH USED KW DEMAND*	DESCRIPTION		AMOUNT
÷.	N965 N964 D 11 D 08 D 05	1000 100 100 100 Total *Max	imum	3 975 3 3712 7 1868	897000 84 836800 86 383900 95 405700 9d 1626400 9d 3303.0	Kilowatt Hour Kilowatt Hour Off-Pk \$.0291 Interm \$.0418 On-Pk \$.0574 Non-Residential Distribution Production &	Meter .46/KWH .82/KWH .26/KWH GT 3A Charge	24389.54 16078.84 23297.99 22086.06 35132.91
			Fuel	Cost	DC Gros	at \$.00295770 p ss Receipts Adju NET CURREN Prior Bill	stment T BILL	6024.57CR 4810.40 4391.60 124162.77 78169.96 78169.96CR

PLEASE PAY THE AMOUNT NOW DUE 124162.77

After Aug 8, 1994, a Late Payment Charge of \$1241.63 will be added, increasing the amount due to \$125404.40.

Information from the American Red Cross states that if you are caught in a storm, rather than lying down, squat low to the ground, making yourself the smallest possible target for lightning.

The scheduled meter read date for your next bill is Jul 26, 1994.

#### Potomac Electric Power Company

PO Ecx 2812 Washington, DC 20067-2812 Telephone (202) 833-7500 Figod si Tax bayer Identification No. 53-0 1278801

AMOUNT PAID

TYPE OF

Actual Reading

SILL SERVICE ADDRESS

14TH & ELDER STS NW

Reminder Notice Summer Rates In Effect

Н WALTER REED ARMY MED CTR 01 FACILITIES ENGR DIV

GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Aug 30, 1994 253004.09 Due After Aug 30 256154.94

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE ACCOUNT NO.

F052115401501541F5520522F1244f08304f0530040400005**2115**4015

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

0251124012 ACCOUNT NO. .

SERVICE: 14TH & ELDER STSTNW

Actual Reading Sommer-Rates-II service Jun-27 PERIOD

ш		_				
	METER NO LAST DIGITS	MULTI- PLIER	METER READING PREVIOUS PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
	N965	1000	8144 8894	750000	Kilowatt Hour Meter	.,
	N964	1000	9755 778	1023000	Kilowatt Hour Meter	
	D 11	100	37124 45910	878600	Off-Pk \$.029195/KWH	25651.32
	D 08	100	18686 23108	442200	Interm \$.041945/KWH	18548.38
	D 05	100	19535 24144	460900	On-Pk \$.057501/KWH	26502.62
		Tota	l KWH Billed	1781700	Non-Residential-GT 3A	
			ximum Demand		Distribution Charge	20957.60
		*On	-Peak Demand	3128.0	Production & Transm	33313.20

Discount 6220.54CF

Fuel Cost Adjustment at \$.00310470 per KWH 5531.65

DC Gross Receipts Adjustment 4557.09 NET CURRENT BILL 128841.32

> 124162.77 Prior Bill Amount TOTAL BALANCE FORWARD 124162.77

PLEASE PAY THE AMOUNT NOW DUE 253004.09

After Aug 30, 1994, a Late Payment Charge of \$3150.85 will be added, increasing the amount due to \$256154.94.

Just a reminder that a past due amount remained on your account at the time we prepared your bill.

The scheduled meter read date for your next bill is Aug 24, 1994

7 Box U311 11 shinaton 20 20067-2312 THEOrone (202) 833-7360 mada (2024) Shinaton (4) 83401273804

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Actual Reading

SERVICE 14TH & ELDER STS NW ADDRESS

Reminder Notice Summer Rates In Effect

WALTER REED ARMY MED CTR Н 01

FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Oct 3, 1994 248500. Due After Oct 3 248500.

> Payment may be mad payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

**AMOUNT** 

253004.

124162.

#### 50251124012013012973024850023100394024850023000025112401

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

ACCCULT NO.

SERVICE

**ADDRESS** 

0251124012

METER READING
PREVIOUS PRESENT

14TH & ELDER STS NW

TYPE OF Actual Reading BILL Summer Rates: In Effect Jul 28 to Aug 24 1994 PERIOD

DESCRIPTION

MOLE	1000 0004 0704			
N965		832000	Kilowatt Hour Meter	
N964	1000 778 1440	662000	Kilowatt Hour Meter	
D 11	100 45910 53491	758100	Off-Pk \$.029195/KWH	22133.
D 08	100 23108 26795	368700	Interm \$.041945/KWH	15465.
D 05	100 24144 28032	388800	On-Pk \$.057510/KWH	22360.
	Total KWH Billed	1515600	Non-Residential-GT 3A	
	*Maximum Demand	2974.0	Distribution Charge	19925.
	*On-Peak Demand	2974.0	Production & Transm	31673.
			Discount	5553.
	Fuel Cost Ad	ljustment	at \$.00539730 per KWH	8180.
		DC Gros	ss Receipts Adjustment	4186.
			NET CURRENT BILL	118370.

Late Payment Charge 1288. TOTAL BALANCE FORWARD 130129.

Prior Bill Amount

PLEASE PAY THE AMOUNT NOW DUE 248500.

Payments Through Sep 9

Just a reminder that a past due amount remained on your accou at the time we prepared your bill.

The scheduled meter read date for your next bill is Sep 26, 1

#### Potomac Electric Power Company

P.O. Box 2812 Washington, DC 20067-2812 Telephone (202) 833-7500

AMOUNT PAID

(Pepco s. Taxbayer identification No. 53-0127880)

- pc - c

SERVICE

Actual Reading

ADDRESS 14TH & ELDER STS NW

Reminder Notice Summer Rates In Effect

H ' 01

ADDRESS

WALTER REED ARMY MED CTR FACILITIES ENGR DIV GA AVE & BUTTERNUT ST NW WASHINGTON DC 20012

Due Oct 26, 1994 237586.02 Due After Oct 26 240560.17

> Payment may be made payable to pepco

PLEASE WRITE THE ACCOUNT NO. ON YOUR REMITTANCE

102511240120119658910240560171026940237586020000251124012

PLEASE DETACH HERE AND RETURN THIS PART WITH YOUR PAYMENT

0251124012

14TH & ELDER STS NW 

TYPE OF Actual Reading Summer Rates In Effect SERVICE PERIOD Aug 24 to Sep 26 1994 33 AYS

METER NO. Last digits	MULTI- PLIER	METER R PREVIOUS	EADING PRESENT	KWH USED KW DEMAND*	DESCRIPTION	AMOUNT
N965	1000	9726	661	935000	Kilowatt Hour Meter	411,41
N964			2154	714000	Kilowatt Hour Meter	
D 11	100	53491	61890	×839900	Off-Pk \$.029286/KWH	24598.04
D 08	100	26795	30713	391800	Interm \$.042036/KWH	16470.04
D 05	100	28032	32044	× 401200	On-Pk \$.057599/KWH	23109.11
	Tota	1 KWH	Billed	1632900	Non-Residential-GT 3A	
/	ЖMа	ximum ]	Demand	× 2844.0	Distribution Charge	19054.80
<b>?</b> .	/ *On	-Peak 1	Demand	× 2844.0	Production & Transm	30288.60

Discount Fuel Cost Adjustment at \$.00359990 per KWH DC Gross Receipts Adjustment NET CURRENT BILL \117927.11

5642.81CR 5878.28 4171.05

The state of

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Prior Bill Amount 248500.23 Payments Through Oct 5 128841.32CR TOTAL BALANCE FORWARD 119658.91

PLEASE PAY THE AMOUNT NOW DUE 237586.02

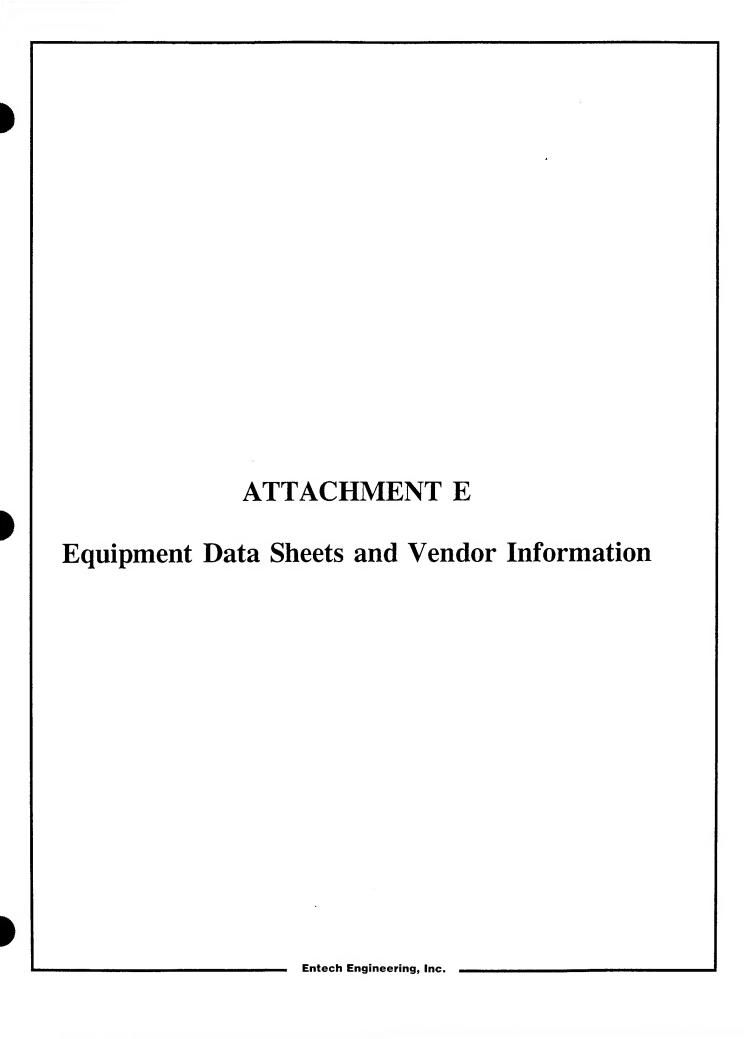
After Oct 26, 1994, a Late Payment Charge of \$2974.15 will be added, increasing the amount due to \$240560.17.

Just a reminder that a past due amount remained on your account at the time we prepared your bill.

The scheduled meter read date for your next bill  $\gamma$  is Oct 25, 1444 CARLER MC SOLVEY

SEE REVERSE SIDE FOR IMPORTANT INFORMATION Potomac Electric Power Company *IF APPLICABLE

9712 3337 P.O. Box 2812, Washington, DC 20067-2812 Telephone (202) 833-7500



Facility Name	Chiller Water Plant	, Building #48	,	
Tag No.	C-48-1			
Equipment Name	Chiller #1	<del></del>	No. of Units 1	
Location	West End of Buildin	g	Year <u>1974</u>	
Manufacturer	York Hermetic Turb	o Pak		
Model No.	HT-T2-G2-GC-A			
Serial No.	DM-011021	, , , , , , , , , , , , , , , , , , , ,		
Capacity	1,250 Tons, R-500	Refrigerant, 3,300 GP	M CHW Flow	
Electrical Characteristics:				
		_Manufacturer/Fram_ _Service Factor		
RPM	·	Full load amps	151	
Facility Name	Chilled Water Plant	, Building #48		
Tag No.	C-48-2			
Equipment Name	Chiller #2		No. of Units 1	
Location	East of Chiller #1		Year_ <i>1974</i>	
Manufacturer	York Hermetic Turb	opak		
Model No.	HT-T2-G2-GC-A			
Serial No.	DM-011022			
Capacity	1,250 Tons, R-500 Refrigerant, 3,300 GPM CHW Flow			
Electrical Characteristics:				
Voltage	4160-3-60	_Manufacturer/Fram	e	
Horsepower_	1,250	_Service Factor		
DDM -		Full load amps	120	

Facility Name	Chilled Water Pla	nt, Building #48	
Гад No	C-48-3		
Equipment Name	Chiller #3		No. of Units_1
Location	East of Chiller #2		Year 1994
Manufacturer	Trane		
Model No.	CVHF-1280		
Serial No.	CVHF-128NAG00	3HZ304EH1EES1C000	00000TA
Capacity	1,280 Tons, R-12	3 Refrigerant, 3,300 G	PM CHW Flow
Electrical Characteristics:			
Horsepower	4160-3-60 1,250	Service Factor	
KPM	3,330	Full load amps	150
acility Name	Chilled Water Pla	nt, Building, #48	
Tag No.	C-48-4		
Equipment Name	Chiller #4		No. of Units_1
ocation	East of Chiller #3		Year <u> 1958</u>
Ianufacturer	Carrier		
Aodel No.	19C7H5-21-21		
erial No.	4453		
		•	M CITH Flow
Capacity	1,100 Tons, R-11	Refrigerant, 1,800 GF	M CHW Flow
Capacity Electrical Characteristics:		Refrigerant, 1,800 GF	W CHW Flow
		<u>Refrigerant, 1,800 GF</u> Manufacturer/Fra	
Electrical Characteristics:	4160-3-60 1,250		ıme

Facility Name	Chilled Water Plan	nt, Building #48	
Tag No.	C-48-5		
Equipment Name	Chiller #5		No. of Units_1
Location	East of Chiller #4		Year <i>1958</i>
Manufacturer	Carrier		
Model No	19C7H5-21-21		
Serial No.	4452		
Capacity	1,100 Tons, R-11	Refrigerant, 1,800 Gl	PM CHW Flow
Electrical Characteristi	cs:		
	4160-3-60 ver1,250		ame
KI WI_	3,555	run load amps	130
Facility Name	Chilled Water Plan	nt, Building #48	
Гад No	C-48-6		
Equipment Name	Chiller #6		No. of Units_1
Location	East of Chiller #5		Year <u>1958</u>
Manufacturer	Carrier		
Model No	19C7H5-21-21		
Serial No.	4451		
Capacity	1,100 Tons, R-11 I	Refrigerant, 1,800 GI	PM CHW Flow
Electrical Characteristi	cs:		
Voltage	4160-3-60	Manufacturer/Fra	ame
<u> </u>	rer1,250		
RPM	3,555	Full load amps	

Facility Name	Chilled Water Plant	, Building #48	,
Tag Nos.	CHP-1, 2, & 3		
Equipment Name	Chilled Water Pump	os #1, 2, & 3	No. of Units 3
Location	Along South Wall		Year
Manufacturer	Weinman		
Model No.			
Serial No.			
Capacity	1,800 GPM		
<b>Electrical Characteristics:</b>			
Voltage	460-3-60	Manufacturer/Fran	ne
		Service Factor	
	1,750		156
		· · · · · · · · · · · · · · · · · · ·	
Facility Name	Chilled Water Plant	, Building #48	
Tag Nos.	CHP-4, 5, & 6		
Equipment Name	Chilled Water Pump	s #4, 5, & 6	No. of Units 3
Location	Along South Wall		Year
Manufacturer	Fairbanks Morse		
Model No.			
Serial No.			
Capacity	3,300 GPM		
<b>Electrical Characteristics:</b>			
Voltage	440-3-60	Manufacturer/Fran	ne
Horsepower		Service Factor	
DDM .		Full load amps	115

Facility Name	Chiller Water Plant,	Building #48	
Tag Nos.	CWP-1, 2, 3, 4, 5, 6	<u>&amp; 6</u>	
Equipment Name	Condenser Water Pu	mps	No. of Units_6
Location	In Cooling Tower Su	mps	Year
Manufacturer			
Model No.			
Serial No.			
Capacity Electrical Characteristics:	3,300 GPM (#1, 2 &	2 3) – 3,750 GPM (#4	1, 5, & 6)
	460-3-60	Manufacturer/Fran	ne
Facility Name	Chilled Water Plant,	Building #48	
Tag Nos.	CT-48-1, 2, 3, 4, 5,	& 6	
Equipment Name	Cooling Towers		No. of Units_6
Location	South of Building #4	8	Year*
Manufacturer	Ceramic Cooling Tov	wer Company (BAC	)
Model No.			
Serial No.			
Capacity	1,100 Tons each (#1,		. 7.050 T
Electrical Characteristics	1,230 1 ons each (#4,	, 5, & 6) Present Ca	pacity /,030 Ions
Electrical Characteristics: Voltage	460-3-60	Manufacturer/From	ne
_	50 (#1, 2, & 3)		le
<b>-</b>	60 (#4, 5, & 6)	Full load amps	
norsepower_	υυ (#4, J, & O)	_r un ivau amps	

^{*} Cell Units rebuilt installing fiberglass membranes and drift ELIMINATORS.

Chilled Water Plant, B	uilding #48	
HX-48-1		
Free Cooling Heat Exc	nanger No.	of Units 1
South of Chiller #1	Yea	ır
Tranter Superchanger		
HX-416-HP-428		
P25515H		
	x. Temp. 250°F, Surfac	ce Area 3,484.9 sf
owerS	ervice Factor	
CW Makeup System	No.	of Units 2
Between Chillers #2 &	3 Yea	r
ower <u>*</u> Se	rvice Factor ıll load amps	
	Free Cooling Heat Exch  South of Chiller #1  Tranter Superchanger  HX-416-HP-428  P25515H  Max. Wp - 150 psi. Masstics: None  Chilled Water Plant, But P-48-1 & 2  CW Makeup System  Between Chillers #2 & Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Se	HX-48-1  Free Cooling Heat Exchanger  No.  South of Chiller #1  Yea  Tranter Superchanger  HX-416-HP-428  P25515H  Max. Wp - 150 psi. Max. Temp. 250°F, Surface  stics: None  Manufacturer/Frame Service Factor Full load amps  Chilled Water Plant, Building #48  P-48-1 & 2  CW Makeup System  No.  Between Chillers #2 & 3  Yea

Facility Name	Chilled Water Pla	nt, Building #49	
Tag No.	C-49-1		
Equipment Name	Chiller	·	No. of Units 1
Location	Along Northwest	Wall	Year <i>1971</i>
Manufacturer	Trane Centrovac		
Model No.	CV-6H-G7H6	1 :	
Serial No.	LIE13904		
Capacity	660 Tons, R-11 R	efrigerant, 1,585 GPM	CHW Flow, (525 kW)
<b>Electrical Characteristics:</b>			
Voltage Horsepower	4,000	Manufacturer/Fran	me
RPM		Full load amps	90.7
Facility Name		nt, Building #49	
Tag No.	CHP-49-2		
Equipment Name	Chilled Water Pur	пр	No. of Units 1
Location	Along Southwest V	Wall	Year
Manufacturer			
Model No.			
Serial No.			
Capacity	1,585 GPM		
<b>Electrical Characteristics:</b>			
Voltage	230/460-3-60	Manufacturer/Frai	ne
Horsepower_			
	13	Dei vice i actor	

Facility Name	Chilled Water Pl	ant, Building #49	
Tag No.	CT-49-1	•	
Equipment Name	Cooling Tower		No. of Units_1
Location	Outside, Along S	outhwest Wall	Year <u>1974</u>
Manufacturer	Baltimore Air Co	oil	
Model No.	VLT 650A BAC		
Serial No.	748242		
Capacity	NOM. 650 Tons,	1,905 GPM Flow	
Electrical Characteristics	<b>5:</b>		
Horsepowe	r <u>4@15</u>	Service Factor	ame
Facility Name	Chilled Water Pla	ant, Building #49	
Tag No.	CP-49-6		
Equipment Name	Condenser Water	Pump	No. of Units 1
Location	Along Southeast	Wall	Year
Manufacturer			
Model No.			
Serial No.			
Capacity	1,980 GPM		
Electrical Characteristics	:		
Voltage Horsepowe	230/460-3-60 r_40	Manufacturer/Fra Service Factor	ame
	1 775	Full load amps	

	•		
Facility Name	AFIP, Original	Building #54	,
Tag Nos.	C-54-1 & 2		
Equipment Name	Chiller		No. of Units 2
Location	Ref. Machine R	Room	Year <u>1952</u>
Manufacturer	Carrier		
Model No.	17M54(-8-8)		
Serial No.	2332-2475/232	3-2474	
Capacity	600 Tons, R-11	Refrigerant	
<b>Electrical Characteristics:</b>			
		Manufacturer/Fra	
Horsepower		Service FactorFull load amps	
RPM	<i>1,775</i>	Full load amps	130
Facility Name  Tag Nos.	-	Building #54 & 3	
Equipment Name	Chilled Water I	Pumps #1, 2, & 3	No. of Units 3
Location	Ref. Machine R	Coom, West Wall	Year
Manufacturer		······	
Model No.			
Serial No.			
Capacity	960 GPM		
Electrical Characteristics:			
¥7.14	160 2 60	Manufacturan/E	ma
9 ——	460-3-60		me
Horsepower	1 760	Service ractor Full load amns	
PC P VI	, , ( ) ( ) ( )	1 111 11 2 2 1 2 1 1 1 1 1 1 1 1 1 1 1	

AFIP, Original Building #54	,
Cooling Tower	No. of Units
	Year
Manufacturer/F	
AFID. Onicinal Puilding #54	
•	
CWP-54-1, 2, & 3	
Condenser Water Pumps #1, 2, & 3	No. of Units 3
Ref. Machine Room, West Wall	Year
1,200 GPM	
1,200 GPM	
Manufacturer/Fi	rame

Facility Name	AFIP Ruilding #	54 Addition	
•			
Tag No.	C-54-3		
Equipment Name	Chiller		No. of Units 1
Location	Basement of Add	ition	Year <u>1983</u>
Manufacturer	Trane		
Model No.	CVHE-080F-AD-	2UB2551CA1C11CA1	C000000042000
Serial No.	L83J14435		
Capacity	700 Tons, R-11 I	Refrigerant, 1,400 GP	M CHW Flow (460 kW)
Electrical Characteristic	s:		
Voltage	460-3-60	Manufacturer/F	rame
Horsepowe	er	Service Factor	
RPM		Full load amps_	639
Facility Name	AFIP, Building #		
Tag No.	CHP-54-4		
Equipment Name	Chilled Water Pu	тр	No. of Units 1
Location			Year
Manufacturer	Allis Chalmers		
Model No.	Type 2000, Size 8	8 x 6 x 13	
Serial No.			
Capacity	1,400 GPM @ 14	45 FT HD, 12.0" Impe	eller Diameter
Electrical Characteristic	s:		
Voltage	230/460-3-60	Manufacturer/Fi	rame
Horsepowe			dire
RPM			

Facility Name	AFIP, Building #54	Addition	,
Tag Nos.	CHP-54-4 & 5		
Equipment Name	Chilled Water Pum	ps #4 & 5	No. of Units_2
Location			Year
Manufacturer			
Model No.			
Serial No			
Capacity			
Electrical Characteristi	ics:		
¥7.14		Manufaatuuman/En	
			ame
		·	
Facility Name	AFIP, Building #54	Addition	
Tag Nos.			
Equipment Name	Cooling Tower	*(	No. of Units
Location			Year
Manufacturer			
Model No.			
Serial No.			
Capacity			
Electrical Characteristi	ics:		
•••		3.5	
			ame
	ver	Service Factor Full load amps	

m N	AFIP, Building #54		,
Equipment Name	Condenser Water Pi	<i>ı</i> тр	No. of Units 1
Location	Basement of Additio	n	Year
Manufacturer	Allis Chalmers		
Model No.	<i>Type 2000, Size 8 x</i>	6 x 13	
Serial No.	52-026-599-11-91		
Capacity	2,000 GPM, 13.00"	Impeller Diameter	
Electrical Characteristics:			
Horsepower RPM	100	_Service Factor_ _Full load amps_	119
Tag No.			
Equipment Name	Air-Cooled Chiller		No. of Units 1
Location			Year
Manufacturer	Carrier		
Model No.	30 GB 175600		
Serial No.			
Capacity	175 Tons, R-22 Refi	rigerant	
Electrical Characteristics:			
Voltage	460-3-60		rame
<del>-</del>		_Service Factor	
RPM		_Full load amps_	7 @ 52.1 & 12 @ 3.0

BRAC, Science Building #6	
DER Construction	
Air-Cooled Chiller	No. of Units 1
	Year
200 Tons, 480 GPM, 54°F EWT,	44°F LWT
460-3-60 Manufacture 239.2 Service Factor Full load am	er/Frame or ps
BRAC, Science Building #6	
Under Construction	
Chilled Water Pumps	No. of Units 2
	Year
•	
240 GPM @ 85 FT HD	
	er/Frame
	or ps
	460-3-60 Manufacture 239.2 Service Fact Full load am  BRAC, Science Building #6  Under Construction  Chilled Water Pumps  240 GPM @ 85 FT HD  Manufacture 10 Service Factors

Facility Name	Outpatient Clinic, B	Puilding #7	
Tag No.			
Equipment Name	Condensing Unit		No. of Units 1
Location			Year
Manufacturer	York		
Model No.	42CA360A46B		
Serial No.			
Capacity	₹ Tons, R-22 Refi	rigerant	
<b>Electrical Characteristics:</b>			
Voltage Horsepower	460-3-60	_Manufacturer/Fran Service Factor_	ne
RPM		_Full load amps	57.7
		uilding #7	
Tag No.			
Equipment Name	Air-Cooled Chiller		No. of Units 1
Location			Year
Manufacturer			
Model No.			
Serial No.			
Capacity			
<b>Electrical Characteristics:</b>			
Horsepower_			ne

Facility Name	DENTAC <del>Dental</del> , Building #9	1	,
Tag No.			
Equipment Name	Condensing Unit	<del></del>	No. of Units 1
Location	On Grade		Year
Manufacturer	Bohn		
Model No.	RVB0465B		
Serial No.			
Capacity	4 Tons, R-22 Refrige	erant	
<b>Electrical Characteristics:</b>			
	208-3-60		
Horsepower		_Service Factor	15.0
Facility Name	DENTAL, Building #91	!	
Tag No.			
Equipment Name			No. of Units 1
Location	Outside of Building,	On Grade	Year
Manufacturer	Trane		
Model No.	RAUC C106B		
Serial No.	1E085D06025		
Capacity	10 Tons, R-22 Refrig	gerant	
<b>Electrical Characteristics:</b>			
Horsepower	208-3-60	_Manufacturer/Fran _Service Factor Full load amps 2 @	

DENTAC -Dental, Building #	91	,
Condensing Unit		No. of Units 1
Outside Building		Year
York		
H1CA480A25A		
YKLM129896	····	
40 Tons, R-22 Refr	rigerant	
cs:		
ver	Service Factor	
	Full load amps	<u>2 @ 80, 4 @ 4.2,</u> <u>&amp; 2 @ 4.5</u>
	<del></del>	
		No. of Units
		Year
cs:		
ver	Service Factor	ume
	Condensing Unit  Outside Building  York  H1CA480A25A  YKLM129896  40 Tons, R-22 Refr  cs:  208-3-60  ver  cs:	



#### Baltimore Aircoil Company Ceramic Cooling Tower Company

204 Appletree Dr. Leesburg, VA 22075 (703) 777-3630 FAX (703) 771-8755



### RECONSTRUCTION MARKETING GROUP FACSIMILE TRANSMITTAL PAGE

FAX # (610) 373-7537

**DATE:** January 26, 1995

COMPANY: Entech ATIN: Mr. Dan Smith

FROM: Jeff Padrta, Reconstruction Manager - NE District

REFERENCE: Walter Reed Hospital - Washington, DC

88007025 ?

Mr. Smith:

In follow-up to our telecon this afternoon regarding Ceramic Cooling Tower Co. Jobs CT-514 & CT-1406 at above referenced, I would like to advise the following:

- -Above installation consists of six cells each 28' long x 24' wide, air inlet on one side only, 20' diameter fans, and tile fill.
- -Cells 1-3 have 50 hp fan motors and were sized for 3,300 gpm/cell, 95°-85°-78°
- -Cell 4-6 have 60 hp fan motors and were sized for 3,750 gpm/cell, 95°-85°-78°
- -In 1989 fiberglass wall membrane and drift eliminators were replaced in all six cells as well as fan rings regrouted and vibration switches installed/relocated. Fan motors were also replaced at cell 4-6.
- -To upgrade thermal performance in cells 1-3 to design conditions of cell 4-6, we could simply installed additional tile fill matching quantity as installed at cells 4-6 and change motors to 60 hp.
- -To increase performance above 1,250 tons/cell, we would have to remove a portion of the tile fill and install several layers of high efficient PVC cellular fill. Along with this option distribution system would also have to be replaced with a low pressure system. With 60 hp fan motors, maximum gpm per cell would be 4,400 or 1,467 tons. Additional performance is limited by air inlet velocity due to inlets on one side only.

I hope the above information helps and if you should have additional questions, please advise me. I would also be pleased to meet at the jobsite to further discuss alternatives the next time you are in town.

Thank you for your interest and I look forward to working with you in further detail as this project is accomplished.

TOTAL P.01

#### TELEPHONE CONVERSATION RECORD

ENTECH ENGINEERING, INC. 500 PENN STREET, BOX 32 READING. PA 19603

ENTECH No.: 4130.02

DATE:

PHONE: FAX:

(610) 373-6667

(610) 373-7537

PROJECT: WRAMC

CHILLED WATER STUDY

NAME

**COMPANY** 

SALLY
BAC WASHINGTON AREA REP

JACK FISHER

ENTECH

#### ITEMS DISCUSSED:

COOLING TOWER FOR BLOG. 49

COUNTERFLOW W/CENTRIFUGAL FANS

(4) 15 HP 230/460 V CDP

1905 GPM @ = 3GPM/TON = 635 TONS

BUILT 1974

#### TELEPHONE CONVERSATION RECORD

ENTECH Engineering, Inc. 500 PENN STREET, BOX 32 READING, PA 19603

ENTECH No.: 4130.02

DATE: 1-12-95

PHONE: FAX:

(610) 373-6667

(610) 373-7537

PROJECT: WALTER REED

CHILLER STUDY

**NAME** 

**COMPANY** 

TREY Mc CANN

JACK FISHER

THE TRANE CO.

ENTECH

ITEMS DISCUSSED:

BLDG. 54 CHILLER

80CHV 700TON R-11 1983

1400/1200 GPM

460 km 55°-43° 85°-95°

BLDG. 49 CHILLER

660 TON R-11 1971 1585/1980GPM

525 kw 54°- 44°

CPF-



THE TRANE COMPANY 2570 INTERSTATE DRIVE HARRISBURG, PA 17110 FAX (717) 652-5155 PHONE (717) 652-4261

### CREATING THE RIGHT ATMOSPHERE

ATTENTION: Jack Fisher COMPANY: Entech
FAX NUMBER:
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FROM: Trey Mc Cann
TIME COL.
Walter Reed
Chiller Selection.
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TOTAL NUMBER OF PAGES =, INCLUDING TRANSMITTAL COVER SHEET.
4130.00 /350 J. Fishert E. Carlicius

TRANE CENTRAVAC SELECTION PROGRAM

Rev Level 55017

Version 14.08 Mon Mar 06, 1995

PROJECT

: WALTER REED ARMY MEDICAL CENTER

LOCATION

: WASHINGTON D.C.

BLDG. OWNER

: USA

PROGRAM USER

: TREY MCCANN

COMMENTS .

MACHINE

: CVHF 1280 1228 328 210L 2100 TECU 28 210L 2100 TECU 28 2150

DESIGN DUTY EXITING EVAP TEMP ENTERING EVAP TEMP EVAPORATOR PASSES FLUID TYPE FLUID \$	43	ENTERING COND TEMP	85
	53	EXITING COND TEMP	95
	2	CONDENSER PASSES	2
	Water	FLUID TYPE	WATER
	0	FLUID 2	0
VOLTAGE FREQUENCY REFRIGERANT	4160 60 123		

NOTE - PERFORMANCE CERTIFIED IN ACCORDANCE WITH ARI STANDARD 550-92 NOTE - EXTENDED SHELL SELECTION.

DESIGN DUTY POWER CONSUMED KW PER DESIGN DUTY	Tons KW	1481 1082 0.731
EXIT EVAP TEMP EVAP FLOW RATE ENTERING EVAP TEMP VAP PD (NON-MAR) EVAP PD (MARINE) EVAP FOULING FACTOR FLUID TYPE AND %	F GPM F FEET FEET	43.00 3553.6 53.00 27.14 28.24 0.00025 WATER 0
ENTERING COND TEMP COND FLOW RATE EXIT COND TEMP COND PD (NON-MAR) COND PD (MARINE) COND FOULING FACTOR FLUID TYPE AND %	F GPM F FEET FEET	85.00 4334.4 95.00 27.25 28.87 0.00025 WATER 0

RLA AT MOTOR KW	AMPS	186
RLA AT SELECTION KW	AMPS	164
REFRIGERANT CHARGE	LBS	2400
SHIP WT. (W/NMAR WB.)	LBS	44454
OPER WT. (W/NMAR WB.)	LBS	52622

AMPS

MAX LRA AT MOTOR KW

evtm-TECU	nton-1280 evth-28	evsz-210L	hrtz-60 evbs-2100		cpkw-1228	
cdtm-TECU		cdsz-210L	cdbs-2100	evwp-2 cdwp-2	orsz-2150 cdty-STD	

1044



### Carrier Building Systems & Services

4110 BUTLER PIRE BUILDING 1, SUITE A104 PLYMOUTH MEETING, PA 19462

(610) 834-1717 - PHONE (610) 834-0880 - FAX

10: <u>Jac</u>	h Fisher
	73 7537
FROM:	m Green
SUBJECT:	
DATE:	13/15
PAGEOF	
MESSAGE:	
	ach BLOG 54
	here is design data
	here is design data  on (17 m) & general info
	on (306B200
	L BLDG T-Z
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DEPORTANT NOTICE	

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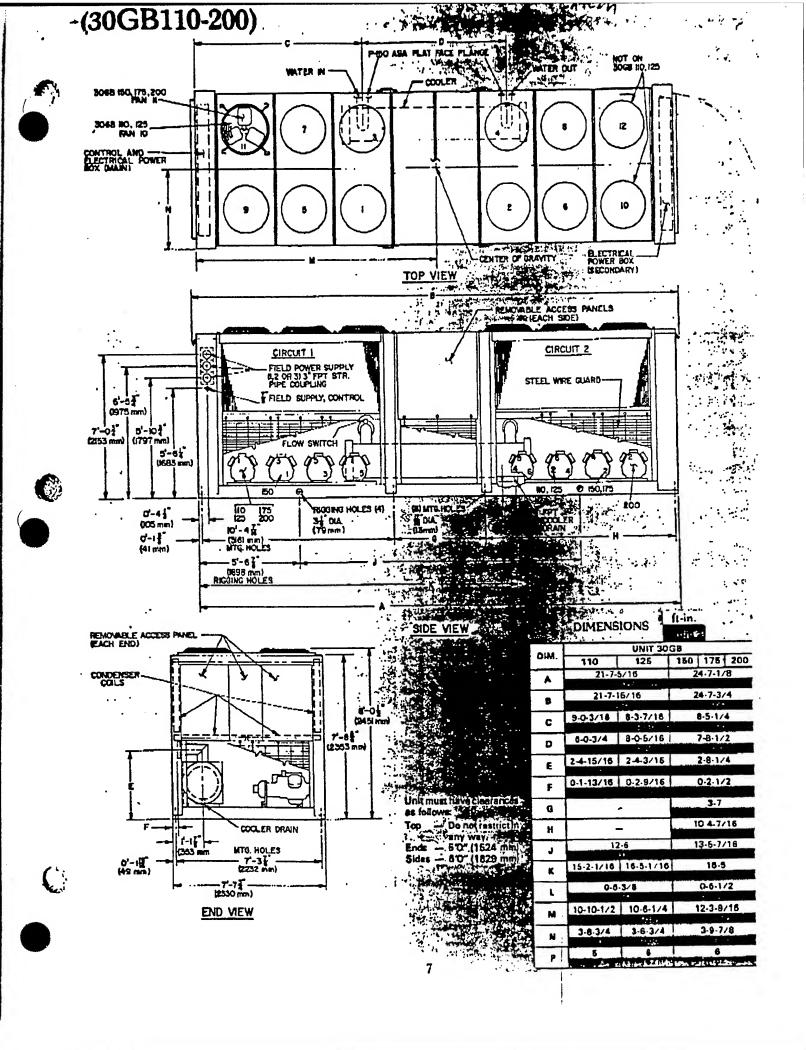
CC: OPF-4130.02 E. CAULLING

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	4	2	TO THI SERIAL AND SE FOUNDA TO BE AND SE EACH 1-17M 1-17M TEMPE .0005 WATER TEST BE IN	APPLIES TERMEDOTIL 2474-247 -83-82 CENDO TONS EA ATION SUPPED INCRES PACHINE TO RECOURT AT 610 SCALE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE FACULE	TRIFUGAL CH. HACH LIED BY A 600 H ASING GI CONSIST UGAL CON BHP US: F. TO AN TOR. MI 200F W/I MORKING ID STAMP	L REFLINES OTHER OTHER SREAR T OF NOTES ING F DEG RESSU OZZLE P WI G PRE ED IA	RIGERATIONS FAMILIANDS THE FOLICE ARCORD	ION HOUNG HE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE MATERIAL TO THE M	MACE MCB MCB MCB MCB MCB MCB MCB MCB MCB MCB	AT COOLED SUCTICA N COPPE	X 113	BES,		•	
_			HES COLUM	OF CHESTAN STATE	war pasty										
	MALTY MA		-	STEELINGT MICE		_	AL COMPLETA C	-	-	DLOS ONLY	·	$\dashv$			
-	9007900			the County	umerca .	- BER 1			1 +	CALLED OFFI				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Per. Ben.
<b>A.</b>	organization	3		WIRCH ES	Marrae		-	FT. 107 E			1			40,000	
1	COPIES	TO	R. 5.	. SHE ILDS	C. ROB	ERTS,	R. C.	BURN UM,	19, B.	H. E. C	ASSE TON.	LL,	i. Ex	ORES	3

CAUTION - MEMONE PROTECTOR SHIET BEFORE TYPING

** TOTAL PAGE.003 *4

			<del></del>			
_	QUIT.	Rolffisses	ener List	10732 LC97	S Mesc.	<b>3857 3077</b> M
		1- 1708 CONDENSER, 2-FASS, 1800 GPM FROM TO 96,7 DED F. WITH 105.5 DED F. CONDENSING 20.7 FT. PRESSURE DROP. LO-FIN COPPER TUBES	EST TO SE SSURE CCORDALL			
		1- PURCE RECOVERY UNIT FOR 440/3/60 HITH 1 HOLDING COIL IN MOTOR STARTER.	TJCV O	٠		
		1- CONTROL PANEL WITH AUXILIARY FOR HOTOR I PANEL TO BE MOUNTED IN STANDARD LOCATION W INSTRUMENTS FOR 110/1/60. SAFETY CUT-OUTS MARUAL RESET FEATURE.	TH			
		1- AUXILIARY OIL PUMP FOR COMPRESSOR COMPL 140/3/60 MOTOR, COUPLING, DASE AND PRESSUR (MOTOR STARTER TO BE SUPPLIED BY MILLA, P	SUITCH	)		
		1- SET OF COMPRESSOR SOLE PALATES AND ACCE	SOR185.		l	
	2	AUXILIARY CONTROL PANEL FOR RENOTE INSTALL PANEL TO BE THE SAME AS STANDARD EXCEPT THE TEMPERATURE, HIGH PRESSURE AND LOW OIL PRECUTOUTS ARE TO BE REPLACED WITH PILOT LICH (DETAILS LATER). STANDARD MOUNTING GRACKET REQUIRED.	LOW ESURE			
-	2	AUATOMATIC GUCTION DAMPERS.	·			
	2	h" MAINUAL HOT-GAS B-PASS.			j	
	2	EXTRA WATER BOY FOR #8 COOLER.				
-	2	17432-333 OIL COOLERS.				
-		DO NOT SUBSTITUTE HATERIAL WITHOUT PRIOR A	PPROVAL.			
1		JMG. 6/11/52			, 1	
-	İ		1			



## -Physical data (60 Hz)

UNIT 30GB	0	30	10	00	11	0	12	.6	11	30	17	5	20	0
APPROX OPERATING WEIGHT (Ib)	78	22	85	20	10,4	445	11,0	080	14,	100	14,0	200	16,1	00
REFRIGERANT CHARGE (Ib)														
R-22 Circuit 1		10		30	16		. 17		23		23		23	
Circuit 2	1	10	13	20		)5	12		2:		23	0 1	23	
COMPRESSORS (TypeRpm)					Rec	proceti		ng, Semi-Hern						
DSE (No.) Circuit 1		265	(2) F	275	(3) F	265	(3) F			275	(4) F		(4) F	
(No.) Circuit 2	(2)	265	(2)	275	(2) F	275	(2) F	276	(3) F	275	(3) F	275	(4) F	275
Capacity Control Staps		4		•				•		В	7		E	
Cliquit 1		0	6	00	6	0	6	0		0	5		5	
% Cap. Circuit 1		Ø.	8	0	4	٥	4	Ò	6	٥	4	3	5	Ξ.
Minimum Step Capacity (%)	1	5	2	5	2	0	2	0	16	5.7	14	.3	12	.5
CONDENSER FANB						-Blade	Propel!	er, Dire	ect Driv	0				
NoDiameter (in.)	i	8	.30		Ì	10.	30		1		12	.30		
RpmTotal Kw	1	1140	12,4			1140	15.5	114018.6						
Total Airtiow (cfm)		78.	400			98.	000		1.		117.	500		
CONDENSER COILS					13.5	Fins/in	1/2	in. OD	Сорры	Tube	· · · · · · · · · · · · · · · · · · ·			
Condenser	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	وسا
No. Rows Circuit 1	3	3	4	4	3	3	4	3	4	4	4	4	4	4
Circuit 2	3	3	4	4	4	3	4	3	4	4	4	4	4	4
Face Area Circuit 1	40.3	40.3	40.3	40.3	60.5	60.5	60.5	60.5	60.5	60.5	80.5	60.5	60.5	60.5
(sqft) Circuit 2	40.3	40.3	40.3	40.3	40.5	40.5	40.5	40.5	60.5	60.5	60.5	60.5	60.5	60.5
COOLER (NoType)					One.	Direct	Expans	aon, St	ell and	Tube				
Model 10HA400	3	64	[ 1:	94	1 1	94	4!	54			50	<b>)4</b>		
No. Refrigorant Circuita		2		2		2	:	2	1		:	2		
Net Water Vol. (gal.) (Includes Nozzie	z) 2	1.7	40	3.4		).4	52		1		60	).2		
Max. Working Pressure (psig)					Refr	gerant	Side. 23	35, Wa	ter Side	150				
WATER CONNECTIONS (in.)	(Cooler Inlet and Outlet) 150-lb. ASA Flat Face Flange													
Inlet and Outlet		4		5	!	5	L	6 ·	1			6		
Drain	1						3/4	FPT						

# Selection procedure (with example)

#### 1 Determine job requirements.

Given.	
Cooling Load	190 Tons
Leaving Chilled Water Temperature (LCWT)	45F
Chilled Water System & T	10F
Cooler Fouling Factor	0.0005
Condenser Entering Air Temperature (CEAT	r) 95 F

## Il Select unit to provide cooling load capacity.

Enter Performance Ratings table at 95 F CEAT and 45 F LCWT. Under Cap., 198.2 tons is nearest to and greater than the given cooling load (190 tons). Read unit selection and performance data directly from table.

Unit	30GB200
Capacity (Cap.)	
Saturated Discharge Temp (SDT)	130.5 F
Compressor Power Input (Kw)	
Cooler Flow Rate (Gpm)	
Cooler Pressure Drop (PD)	

## -Performance data

## Ratings -:

The following ratings tables are based on 10 F chilled water rise, 0,0005 fouling factor in cooler, and Refrigerant 22. Ratings in boldface type are in accordance with ARI Standard 590-81. The conditions are 95 F Condenser Entering Air Temperature (dry-bulb), 44 F Leaving Chilled Water Temperature.

Cap. - Capacity

 Compressor Mutor Power Input

LCWT - Leaving Chilled Water Temp

PD — Pressure Drop (ft water)

SDT - Sat. Disch Temp

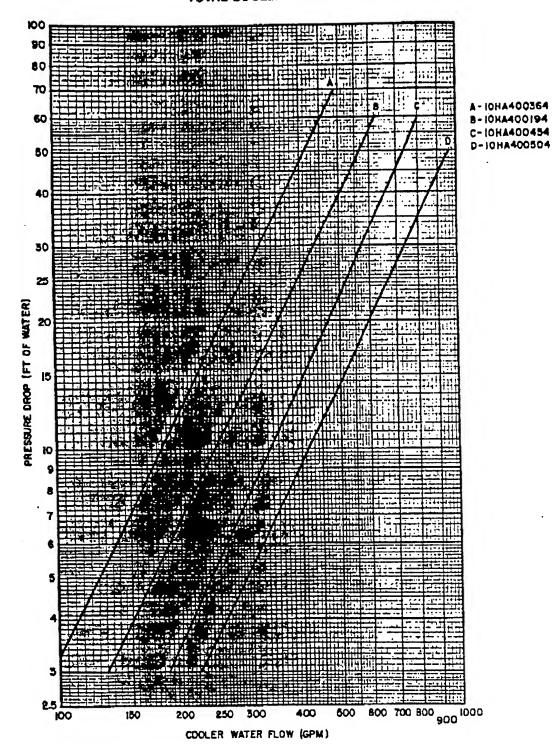
#### CONDENSER ENTERING AIR TEMPERATURE

				85					ئە 0€	300.18	de?	·	•	96		
LCWT	TINU	Cara	<b>SDT</b>	Kw	Coo		Cap	BOT	Kw 1.	Coo	er Jeta	Cap.	801	Kw	Flow (	
1		Cap.	•01		Gpen	PD		•		Opm	. 145				- Clom	PD
	GBOSO	8/3	114.4	90.2	2101	13.5	85 2	115.8	82.4	203.6	12.7	82.4	123.2	94.3	1971	~12.0
1	GB100	98.1	113.1	102.1	234.4	9.0	95.0	117.5	104.8	227.0	8.5	91.8	121.9	107.3	219.5	7.9
	G8110	1097	1138	117.3	262.3	11 2	106.4	118.2	120.3	254.3	10.5	103.0	122.6	123.0 137.4	240.3 280.4	7.0
40	GB125	125.7	115.1	130 9	300 8	8.1	121.5	1194	134 2	290 4	7.5	117.3	123.7 123.2	166.2	342.2	6.7
1	GB150	153.8	114.6	157.3	267.7	7.7	148.4	118.9	181.5	354.8	7.2 9.2	143.2 162.7	125.8	193.3	388.9	8.6
- 1	QB175	174.4	117.2	184 8	416 9	9.8	168.6	1215	189.2 213.0	403.0 444.2	11.1	179.5	127.3	217 2	429.1	10.4
	GBZ00	192.2	118.9	208.4	459.5	11.9	185.8	123.1					124.3	96.6	205.6	13.0
ı	CHO30	91.5	115.6	92.2	218.8	14.5	88.7	120.0	94.5	212.3	13.8 9.1	85.9 95.5	122.9	109.8	228.4	8.6
!	<b>GB100</b>	101.8	114.3	104 2	243.6	9.7	96.7	118.5 119.2	107.1	236.0 254.3	11.4	107.1	123.6	125.8	256.1	10.7
	GB110	113.9	114.8	119.8	272.4	12.0	110.5 125.5	120.5	122.9 127.4	302.5	8.2	122.2	124.9	140.7	292.3	7.8
42	GB126	130 8	1163	153.9	312.8 383.1	8.8 8.3	154.7	120.0	165.2	370.0	7.3	149.3	124.3	169.2	357 0	7.3
1	GB150 GB175	181.7	116.7 118.5	189.2	434.6	10.7	175.5	122.7	193.7	420.0	10.0	159.5	127.0	198.0	406.5	9.3
	GB200	199.3	120.2	213.4	478.2	12.6	193.4	124.4	218.2	462.5	12.0	186.9	128.6	222.6	447.0	11.3
	G8090	95.1	116.7	94.2	227.7	15.8	92.3	121.1	96.6	221.0	14.9	29.5	125.5	98.9	214.2	14.0
	GB100	105 7	1152	106.3	252.9	10.4	102.5	119.6	109.3	245.3	9.8	99.2	123.9	112.2	237.5	9.2
	QB110	118.1	1159	1223	282.7	12.9	114.5	120.3	125.5	274.4	12.2	111.1	124.7	128.5	266.1	11.5
44	ĞB125	136.0	117.4	136.9	326.5	9.5	131.6	121.7	140.5	314.9	8.9	127.2	126.0	144.0	304.4	8.3
***	G8160	156.6	116.8	164.4	398.9	9.0	161.1	121.2	169.0	385.5	8.4	155.5	125.5	173.2	372.2	7.9
	QB175	188.9	119.7	193.5	452.1	115	182.7	123.9	198.3	437.2	10.0	176.5	128.2	202.8	422.6	10.1
	<b>GB200</b>	207.6	121.5	218.4	487.0	13.8	201.0	125.7	223.4	481.2	13.0	154.4	129.9	228.1	405.4	12.2
	GB090	97.0	117.3	95.2	222.2	16.4	94.1	121.7	\$7.7	225.4	15.5	91.3	128.0	100.0	218.6	14.6
	GB100	107.6	116.7	107.4	257.7	10.8	104 4	120.1	110.5	250.0	10.2	101.1	124.4	113.4	242.1	11.9
	GB110	120 2	116.4	123.5	287.9	13.4	116.7	120.8	126.8	279.5 321.2	12.7	113.2 129.7	126.5	145.6	310.5	8.5
45	GB125	138.6	118.0	138 4	331 9	9.9 9.4	134.1	122.3	142.1	393.4	8.8	158.7	125.0	175.2	380.0	8.2
	GB150 GB175	189.9	117.4	195.8	4514	12.0	186.4	124.6	200.7	446.2	11.2	180.0	128.8	205.2	431.0	10.5
	GB200	2118	122.1	220.9	506.7	14.3	204.8	126.3	226.0	490.5	13.5	198.2	130.5	230.B	474.7	12.6
	GB090	98.9	117.9	96 2	236 8	17.0	96.0	122.2	98.8	229.9	18.1	93.1	126.6	101.2	223.0	. 15 2
	GB 100	109.6	1162	108.6	282.5	1112	106.3	120.6	111.7	254.7	10.6	103.0	125.0	1146	246.8	10.0
	GB110	122.4	116.9	124.7	293.1	13.5	118.8	121.3	128.1	284.6	13.1	115.3	125.7	131.3	276.1	12.4
45	G8125	1413	118.6	139.9	338.5	10.3	136.8	122.9	143.7	327.6	9.6	132.2	127.2	147.3	316.8	9.0
	GB150	173.4	118.0	1681	4153	9.8	167.6	122.3	172.8	401.4	9.1	161.9	126.6	177.2	387.8	8.5
	G8175	198.4	121.0	198.0	470.5	12.4	190.0	125.2	203.0	455.2	111.7	183.6	129.4	207.7	439.8 484 1	10.9
	GR200	2156	122 8	223.5	<b>516.4</b>	14.9	208.8	127.0	228.8	600.2	14.0	202.1	131.2	233.6	1	1
	GB090	102 6	1191	98 2	245 9	183	99 7	123.4	100.9	239.0	17.3	96.8	127.8	103 5	231.9 256.2	16.3
	G8100	113.6	117.4	110.7	272.3	12.0	110.3	121.7	114.0	264.3	11.4	106.9	126.1 126.B	134.1	286.4	13.3
44	G8110	126 7	118.0	127.3	303.7	14.8	123.1	122.4	130.8	295.0	10.4	119.5	125.4	150 7	329.4	9.7
48	G8125	140.6	119.9	142.8	351 4	11.1	142 1	124.1	145.9 176.6	340.5	9.8	168.4	127.8	181.2	403.6	9.2
	GB150 GB175	180.1	119.2	171.6	431.5 489 D	13.4	197.5	123.5	207.7	473.2	12.6	191.0	130 7	212.7	457.7	11.8
	GB200	223.7	124.1	228.6	636.1	16.0	216.7	1283	234.1	518.4	15.0	209.9	132.5	239.2	503.0	14.1
	1 00200	1 440.7	144.1	4400	0,0.1	1 .0.0	1 2.4.7	1	1	010.7	1 .4.4	1	1	1		1

	·····		···········	105					×110 %	1 (A)			÷:	115		
LCWT	TINU	Cap.	SDT	Kw	Coo Flow I		Cap.	SDT	NW S	Tow E	4 11	Cao.	\$DT	Kw	Cool Flow E	
1					Gpm	PD		n a	7		. PD . :	<b>₩</b> ,			<b>G</b> pm	PD
40	G8090 G8100 G8110 G8125 G8150 G8175 G8200	76.9 85.6 96.2 109.0 132.8 150.8 166.9	131.9 130.7 131.4 132.4 131.9 134.2 135.8	97 8 112.0 127.9 143.0 172.0 200.4 224.6	183.8 204.6 230.0 260.5 317.4 360.4 389.0	10.5 6.9 8.7 8.0 5.8 7.4 9.0	74.1 82.5 92.8 104.8 127.5 144.9 160.6	136.3 135.0 135.8 136.7 136.2 138.5 140.0	89.3 114.1 130.0 145.4 174.9 203.5 227.8	177.1 197.3 221.9 250.4 304.9 346.5 383.9	9.7 6.5 8.1 5.6 5.4 5.9 8.4	71.3 79.4 89.4 100.6 122.3 139.2 164.3	140 6 139.4 140.2 141.0 140.5 142.8 144.2	100.6 116.0 132.0 147.6 177.5 206.4 230.7	170.4 189.9 213.6 240.5 292.4 332.8 359.0	9.0 5.0 7.5 5.1 4.9 6.4 7.8
42	GB090 GB100 GB110 GB125 GB150 GB175 GB200	80.2 89 1 100.1 113.6 138 5 157.3 174.0	133.0 131.6 132.4 133.5 133.0 135.4 137.0	100.3 114.7 130.9 146.5 176.3 205.6 230.5	191.9 213.2 239.5 271.7 331.4 376.4 416.3	11.4 75 9.4 8.6 6.3 8.1 9.8	77.4 88.0 96.6 109.3 133.2 151.4 167.5	137.3 136.8 136.8 137.8 137.3 139.7 141.2	101.9 115.9 133.3 149.2 179.4 209.0 233.9	185.1 205.7 231.2 261.8 318.6 362.2 400.8	10.6 7.0 8.8 8.1 6.8 7.5 9.1	74.5 82.8 93.1 106.1 127.9 145.5 181.1	141.7 140.4 141.2 142.0 141.6 143.9 145.4	103,4 118,9 135,3 161,6 182,3 212,1 237,1	178.2 198.1 222.8 251.3 305.9 348.1 385.5	9.9 6.5 8.2 5.6 5.4 5.9
44	G8090 G8100 G8110 G8125 G8150 G8175 G8200	83.6 92.7 104 1 118.4 144 5 184.0 181 3	134 1 132.7 133.4 134.6 134 1 136.6 138 3	102 8 117.4 134 0 150.2 180.7 210.8 236.4	200 7 221.9 249 1 283.4 345.8 392.7 433 9	12 J 8.1 10.1 7.2 6.8 8.8 10.6	89.5 100.5 114.0 139.0 157.8 174.6	138 4 137.0 137 8 138.9 138.3 140.8 142.4	104 6 119.7 136.5 163.0 184.0 214.3 240.0	193 2 214.1 240 5 272.9 332.8 377.9 418.0	11.5 7.6 9.5 6.8 6.4 8.1 9.9	77.8 85.2 97.0 109.8 133.5 151.9 168.1	142.8 141.4 142.2 143.1 142.6 145.1 146.6	108.1 121.8 138.7 155.5 187.1 217.8 243.5	186.2 206.4 232.1 252.4 319.6 363.6 402.4	10.7 7 1 8.8 6.1 6.9 7 5 9.2
46	08090 G8100 G8110 G8125 G8150 G8175 G8200	85.4 94.5 106.1 120.8 147.5 167.4 184.9	134.7 133.2 133.9 135.2 134.8 137.2 136.9	104.1 118.8 135.6 152.1 182.9 213.5 239.4	204.4 226.4 253.9 289.3 353.2 400.9 442.8	12.8 8.4 10.5 7.5 7.1 8.1 11.0	82.4 91.3 102.5 116.4 142.0 161.3 178.2	139.0 137.5 138.3 139.4 138.9 141.4 143.1	105.9 121.1 138.1 154.9 186.3 217.2 243.1	197.4 215.6 245.4 278.7 340.0 386.1 426.8	12.0 7.9 9.8 6.9 6.6 6.5 10.3	79.5 88.0 98.9 111.9 135.4 155.1 171.6	143.3 141.9 142.7 143.7 143.2 145.7 147.3	107.5 123.3 140.4 157.5 189.5 220.6 246.7	190 3 210 7 235 8 268.1 326 5 371.5 410.9	7.3 9.7 6.4 6.1 7.9 9.6
46	G8090 G8100 G8110 G8125 G8150 G2175 G8200	87.1 96 4 108.1 123.3 150.6 171.0 188.7	135.2 133.7 134.6 135.7 135.2 137.9 139.5	106.3 120.1 137.1 153.9 185.1 216.2 242.4	208.7 230 9 258.9 295.3 360.7 409.6 451 9	13.3 8.8 10.9 7.8 7.4 8.5 11.5	84.2 93 1 104.5 118.8 145.0 164.6 181.9	139.6 138.0 138.8 140.0 139.5 142.1 143.7	107.2 122.5 139.7 156.8 188.6 220.0 246.2	201.6 223.0 260.2 284.5 347.2 394.3 435.6	12.5 8.2 10.2 7.2 5.9 8.8 10.7	81.1 89.8 100.8 114.3 139.3 158.4 175.1	143.9 142.4 143.2 144.2 143.7 146.3 147.9	108 9 124.8 142 1 159.5 192.0 223.5 249.9	194 4 215.0 241 5 273.7 333.7 379.4 419.5	11.6 7.6 9.5 6.7 6.4 8.2 9.9
48	GB090 GB100 GB110 GB125 GB150 GB175 GB200	90.7 100.1 112.2 128.2 156.8 178.0 196.2	13G.4 134 7 135.5 136.9 136.3 139.1 140.8	107.9 122.8 140.2 157.5 189.5 221.6 248.5	217.4 340.0 268.8 307.2 375.9 426.5 470.2	14 4 9.4 11.7 8.4 8.0 10.3 12.4	87 6 96.7 108 5 123.7 151 0 171.4 189.3	140.7 139.1 139.9 141.1 140.5 143.3 145.0	109.9 126.4 143.0 160.7 193.3 226.6 252.6	210.0 231.8 260.0 296.3 362.0 410.8 453.8	13.5 8.8 11.0 7.8 7.5 9.6 11.6	84.8 93.3 104.8 119.0 145.3 165.1 182.4	145.0 143.4 144.2 145.4 144.8 147.5 149.1	111.7 127.8 145.5 163.5 196.8 229.3 256.4	202.7 223.7 251.2 286.3 348.1 395.6 437.1	12.6 8.2 10.3 7.3 5.9 8.9 10.8

## ormance data (cont)

## → TOTAL COOLER PRESSURE DROP



CODLER: UNIT 30GB 090 364 100, .194 110 125 454 150. 175, 200

**504** 

CHI	CUIT	uutu 1	וטט		
 			. – – .	,	

				UNIT					COMI	RESSC	RS† "		F/	N MO	TORES	·
30 GB	Model	Name-	olts Supp	shed*	Type	MCA	MOPA (Fuse)	JCF .	RLA (ea)	LRA	Total	Total	Ph	-FLA (04)	ATAP (FCB)	Hp HEC)
		plate	Min	Mex	Start					(C8)						
080	500 500 100	208-230 460 575	187 414 518	254 508 532	XL XL XL	490.1 215.3 204.0	900 250 250	806 382 314	102.9 45.0 43.5	448 223 164	144 63 61	12.4 12.4 12.4	3 3 3	5.6 3.0 2.4	74 28 22	1.94 1.75 1.75
100	500 600 100	208-230 460 575	187 414 618	254 508 632	XL XL XL	520.3 245.4 210.5	600 300 250	889 434 330	110.0 52.1 45.0	506 253 176	154 73 83	12.4 12.4 12.4	3	6.6 3.0 2.4	74 28 22	1.94 1.76 1.75
110	500 600 100	208-230 460 575	187 414 518	254 508 632	XL XL XL	622.2 282.2 255.8	700 300 300	991 470 376	(See	Table B	olow)	15.5 15.5 15.3	3 3	6.6 3.0 2.4	74 28 22	1.94 1.75 1.75
125	500 600 100	208-230 460 675	187 414 518	254 508 632	XL XL XL	643.5 303.5 260.3	700 350 300	1012 492 380	110.0 52.1 45.0	506 263 176	154 73 63	15.5 15.5 15.5	3 3 3	6.6 3.0 2.4	74 28 22	1.94 1.75 1.75
150	500 600 100	208-230 460 575	187 414 518	253 508 632	XL XL XL	767 362 310	1000 450 400	1136 550 430	110 52 45	506 253 178	154 73 63	18.6 18.6 18.6	3 3 3	6.6 3.0 2.4	74 28 22	1.94 1.75 1.75
175	500 600 100	208-230 460 676	187 414 518	253 508 632	XL XL XL	877 414 355	1000 500 400	1246 602 475	110 52 45	506 253 178	164 73 83	18.6 18.6 18.6	3 3 3	5.5 3.0 2.4	74 28 22	1.94 1.75 1.75
200	500 500 100	208-230 460 575	187 414 518	253 508 632	XL XL	987 465 400	1200 600 450	1356 554 520	110 52 45	508 253 176	154 73 63	18.6 18.6 18.5	3 3	6.6 3.0 2.4	74 28 22	1.94 1.75 1.75

CB — Circuit Breaker (Comprossors)

FCB - Fan Circuit Breaker

FLA -- Full Load Amps (Fan Motors)

Hp — Horsepower ICF — Maximum In

CF — Maximum Instantaneous Current Flow during starting (the point in the starting sequence where the sum of the LRA for the starting compressor, plus the total RLA for all running compressors, plus the total FLA for all running fan motors is maximum).

Kw - Total condenser fan motor power input

LRA - Locked Rotor Amps

MCA - Minimum Circuit Amps (for wire sizing). Complies with

NEC Section 430-24.

MOPA — Maximum Overcurrent Protective Dovice Amps MTA — Must Trip Amps (Circuit Breaker)

NEC — National Electrical Code

Ph - Phase

RLA — Rated Load Amps (Compressors)

XL - Across-the-Line

*Units are suitable for use on electrical systems where voltage supplied to the unit terminals is not below or above the listed minimum and maximum limits.

### 130GB090,100: 4 compressors 
### 30GB110,125: 5 compressors 
### 30GB150: 6 compressors 
### 30GB175: 7 compressors 
### 30GB200: 8 compressors 
### 30GB200: 8 compressors 
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### 30GB200: 8 compressors 
### 30GB200: 8 compressors 
### 30G

\$30GB090.100: 8 Fans 30GB110.125: 10 Fans 30GB150-200: 12 Fans

**30GB090,100: One FCB for all fans, 30GB110-200: One FCB for each circuit.

A VI	<b>νη</b>	COMPRESSORS (No.).										
	10	(3)	Circult	(1 ,42	ind;(2)	Circuit	2 经决。					
TROOP	MODE	HLA	LRA	MTA	RLA	LRA	MTA					
	500	102.9	445	144	110.0	506	154					
110	600	45.0	223	63	52.1	253	73					
	100	43.5	164	61	45.0	176	63					

#### General electrical notes

- The 115/1-60 control circuit power must be supplied from a separate source, thru a field-supplied fused disconnect.
- 2. Crankerse and cooler heaters are wired into the control circuit so they are always operable as long as the control circuit power aupply disconnect is on, even if any safety device is open or the unit ON-OFF switch is off.
- Heaters are wired ahead of the control circuit fuse; thus, they are protected by the overcurrent protective device in the control circuit power supply.
- 4. All units have single-point power connection to simplify field power wiring.
- 5. On 208 230/3/60 units: 30GB090,100 have 2 terminal block
  - 30GB090,100 have 2 terminal blocks and require 6 parallel conductors from the disconnect.
    30GB110-200 have 3 terminal blocks and require 9 parallel conductors from the disconnect.
- 6. On 460 and 575/3/60 units:
  - 30GBC 125 have one terminal block and require 3 parallel onductors from the disconnect.
- 30GB1 2000 have 2 terminal blocks and require 6 parallel conductors from the disconnect.
- Maximum incoming wire size for each terminal block is 500 MCM.
- 8. The 203-230-volt 30GB200 units must have copper mair power conductors to meet NEC requirements. All other units may use aluminum, copper-clad or copper conductors.



# Carrier Building Systems & Services CPF-4130.02 J. Fisher

4110 BUTLER PIKE BUILDING 1, SUITE A104 PLYMOUTH MEETING, PA 19462

(610) 834-1717 - PHONE (610) 834-0880 - FAX

o: Ed Caulkers	
OHPANY: 373-7580 7537	
FROM: Tim Green	
SUBJECT: Wonlfer Ree d	
DATE:	
PAGEOF	
MESSAGE: Ed 2 pass cooler 7 pass condenser	•
MESSAGE:	-
42 lyg chilled water	
42 lug chilled water 95 lug cond water	-
	_
will be produce 1896 tons	_
. USING 852 KW Tor	_
- 18· [10]	<u></u>
Regards Tom Green	
and an arrangement of the service	r <b>1</b>

CAUTION:

This faceimile mossage contains private or other sensitive information afthe sensor and is intended soley for the recipient named above. If you are not the intended recipients (1) You intended soley for the recipient named above. should hold this message in confidence and be some that any disclosure, copying, distribution or use of this information is prohibited. (2) Please motify the sunder by telephone (collect). (3) Please return this message to sender at the address given above via the U.S. Postal Service. We appreciate your cooperation and will relature you for your cost of postage.

Index Rating 1314

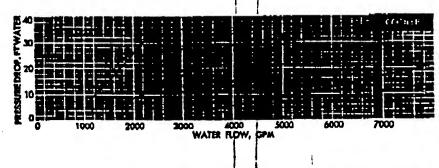
Bold Face ratings are based on 852 Kilowatt Input.

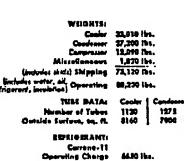
Light Face ratings require less than 852 Kilowatt Input.

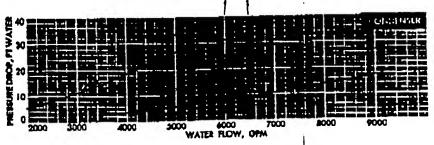
Italiaired floures are for interpolation only.

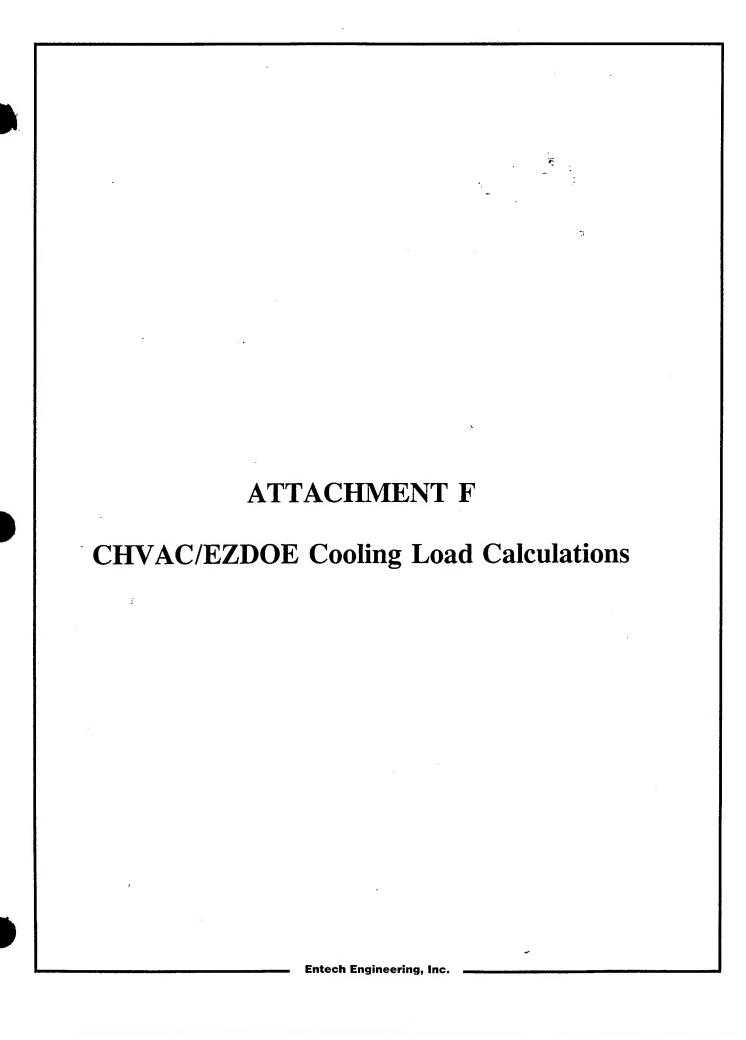
•	MACHINE SIZE 19C7U-21-21	CHILLED			Light I Italicis	ace rai	ings re	quire la lor inter	s than polation	552 Kild a only.	watt Ir	ipuŁ		
190	C7U-21-21					LEAVE	NG CON	DENSER	WATER	THERE	ATURE			
KILOV	VATT INPUT ESE	WATER TEMP.		<b>8</b> 5	90				95					
		(51)	<del>                                     </del>		·····		IMP	THER C	AMEMO	TION				
		1 "	7	4	5	7	6	1	7	6	8	7	6	5
PASS	WATER FLOW		<b></b>			REFR	GERATI	ON CAP	ACITY, 1	ONS				
		40			1143			1120			1084			1037
3	Conter	42	1		1174			1140			1106			1062
3	1074-2685 0PM	44		1218			1188			1140			1104	
	•	46		1233			1198			11,62			1116	
	Condenser	44		1251		-	1208			1174			1126	L
2	1830-4570 GPM	48	1270			1238			1201			1134		
	1640-4210 ALW	50	1314			1272			1233			1190		<u> </u>
		40		1	1130			1104			1058			1016
_	Cooler	42	1		1154			1128	1		1076			1048
2	1411-4030 OPM	44	1	1190			1140			1124	1107	•		1074
		45	1	1214			1186			1148			1105	
	Condenser	44	1	1210			1194		1	1160			1113	I
2	1430-4570 OPM		1284	<del>                                     </del>	1	1226			1188			1138		Ī
	1640-1970 OFM	50	1292	<del>                                      </del>		1248			1210		1	1164		

"Second on nonmorener requirement of 1870 billy and ,8000 serie factor in cooler and sendenter.









*** FULL COMMERC: ** ENTECH ENGINE Walter Reed Med ( *****	ERING ** Ctr	01/05	5/95		EVELOPMENT READING,	PA 19603 PAGE 15
NO. PEAK TIME &		HTG.LOSS O.A. CFM	SEN.GAIN		HTG.CFM CFM/SF.	CLG.CFM CFM/SF.
1 Building No. 4 PM AUGUST	07 48180	0	1,162,502 14,835		0.00	52,468 1.09
ZONE PEAK TOTALS TOTAL ZONES: 1	48,180	0	1,162,502 14,835	•	0.00	52,468 1.09

*£* 

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*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
                                                             READING, PA 19603
** ENTECH ENGINEERING **
                                   01/05/95
                                                                       PAGE 16
Walter Reed Med Ctr
******* AIR SYSTEM # 1 (AHU 1) TOTAL LOAD SUMMARY ***********
  R HANDLER DESC: AHU 1 WITH CV (PROPORTION) TERMINALS
 ENSIBLE HEAT RATIO: \overline{0}.95 ---- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING
                                                            ¥ .
AIR SYSTEM PEAK TIME: 4 PM IN AUGUST
OUTDOOR CONDITIONS: 92 DB, 75 WB, 103.47 GRAINS
                                                        INSIDE: 75 DB, 50% RH
SUMMER: VENT CONTROLS OUTSIDE AIR ---- WINTER: NONE CONTROLS OUTSIDE AIR
                                     0 BTUH
ZONE SPACE SEN.LOSS:
                                     0 BTUH ( 0 CFM)
0 BTUH ( 0 CFM)
INFILTRATION SEN.LOSS:
OUTSIDE AIR SEN.LOSS:
                                    0 BTUH
0 BTUH
SUPPLY DUCT SEN.LOSS:
RETURN DUCT SEN.LOSS:
TOTAL SYSTEM SEN.LOSS:
                                                                         0 BTUH
SUPPLY AIR: 0 / (0.999 \times 1.08 \times 0) = (WINTER VENT OUTSIDE AIR (0.00\% \text{ OF SUPPLY}): (
                                                     0 CFM)
0 CFM)
ZONE SPACE SEN.GAIN: 1,153,702 BTUH
                             O BTUH (
                                                  o CFM)
INFILTRATION SEN.GAIN:
DRAW-THRU FAN SEN.GAIN:
                                      0 BTUH
                                      0 BTUH
SUPPLY DUCT SEN.GAIN:
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:
                                                                 1,153,702 BTUH
SUPPLY: 1,153,702 / (0.999 X 1.10 X 20) = ( 52,468 CFM)
MMER VENT OUTSIDE AIR (28.3% OF SUPPLY): ( 14,835 CFM)
RETURN DUCT SEN.GAIN:
                                      0 BTUH
RETURN PLENUM SEN.GAIN:
                                     0 BTUH
OUTSIDE AIR SEN.GAIN:
                               277,274 BTUH ( 14,835 CFM)
BLOW-THRU FAN SEN.GAIN:
                                O BTUH
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:
                                                                   277,274 BTUH
TOTAL SEN.GAIN ON AIR HANDLING SYSTEM:
                                                                 1,430,976 BTUH
                          63,360 BTUH
0 BTUH (
ZONE SPACE LAT.GAIN: 63,360 BTUH
INFILTRATION LAT.GAIN: 0 BTUH ( 0 CFM)
OUTSIDE AIR LAT.GAIN: 391,148 BTUH ( 14,835 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:
                                                                   454,508 BTUH
TOTAL SYSTEM SENSIBLE AND LATENT GAIN:
                                                        1,885,484 BTUH
```

157.12 TONS

*** FULL COMMERCIAL  ** ENTECH ENGINEERIN Walter Reed Med Ctr  ********	G **	01/05	5/95		EVELOPMENT READING,	PA 19603 PAGE 17
. ZONE - DESCRIPTI NO. PEAK TIME & MON		HTG.LOSS	SEN.GAIN		HTG.CFM CFM/SF.	CLG.CFM CFM/SF.
2 General Hospital 4 PM AUGUST	227529	0	7,026,192 245,731	•	0.00	318,596
ZONE PEAK TOTALS TOTAL ZONES: 1	227,529	0	7,026,192 245,731	•	0.00	318,596 1.40

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*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
 ** ENTECH ENGINEERING **
                                                                                                                                                                      READING, PA 19603
                                                                                            01/05/95
Walter Reed Med Ctr
 ******* AIR SYSTEM # 2 (AHU 2) TOTAL LOAD SUMMARY ***********
     R HANDLER DESC: AHU 2 WITH CV (PROPORTION) TERMINALS
 SENSIBLE HEAT RATIO: \overline{0}.98 ---- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING
AIR SYSTEM PEAK TIME: 4 PM IN AUGUST
OUTDOOR CONDITIONS: 92 DB, 75 WB, 103.47 GRAINS
                                                                                                                                                        INSIDE: 75 DB, 50% RH
SUMMER: VENT CONTROLS OUTSIDE AIR ---- WINTER: NONE CONTROLS OUTSIDE AIR
                                                                                                 0 BTUH
                                                                                                     0 BTUH (
0 BTUH (
ZONE SPACE SEN.LOSS:
                                                                                                                                                     0 CFM)
0 CFM)
 INFILTRATION SEN.LOSS:
                                                                                                  0 BTUH (
OUTSIDE AIR SEN.LOSS:
SUPPLY DUCT SEN.LOSS: RETURN DUCT SEN.LOSS:
                                                                                                      O BTUH
TOTAL SYSTEM SEN.LOSS:
                                                                                                                                                                                                      0 BTUH
SUPPLY AIR: 0 / (0.999 \times 1.08 \times 0) = (0.999 \times 1.08 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) 
ZONE SPACE SEN.GAIN: 7,005,567 BTUH
INFILTRATION SEN.GAIN:
                                                                                0 BTUH ( O CFM)
                                                                                                        0 BTUH
DRAW-THRU FAN SEN.GAIN:
SUPPLY DUCT SEN.GAIN:
                                                                                                        0 BTUH
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:
                                                                                                                                                                               7,005,567 BTUH
SUPPLY: 7,005,567 / (0.999 X 1.10 X 20) = ( 318,596 CFM)
MMER VENT OUTSIDE AIR (77.1% OF SUPPLY): ( 245,731 CFM)
RETURN DUCT SEN.GAIN:
                                                                                                       0 BTUH
RETURN PLENUM SEN.GAIN:
                                                                                                    0 BTUH
OUTSIDE AIR SEN.GAIN: 4,592,846 BTUH ( 245,731 CFM)

BLOW TUDI FAN GEN CAIN: 0 BTUH
BLOW-THRU FAN SEN.GAIN:
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:
                                                                                                                                                                              4,592,846 BTUH
TOTAL SEN.GAIN ON AIR HANDLING SYSTEM:
                                                                                                                                                                            11,598,413 BTUH
ZONE SPACE LAT.GAIN: 148,500 BTUH
INFILTRATION LAT.GAIN: 0 BTUH ( 0 CFM)
OUTSIDE AIR LAT.GAIN: 6,479,086 BTUH ( 245,731 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:
                                                                                                                                                                               6,627,586 BTUH
TOTAL SYSTEM SENSIBLE AND LATENT GAIN:
                                                                                                                                                                         18,225,999 BTUH
```

1,518.83 TONS

*** FULL COMMERCIAL  ** ENTECH ENGINEERIN  Walter Reed Med Ctr  **********	IG **	01/05	/95		VELOPMENT READING,	PA 19603 PAGE 19
NO. PEAK TIME & MON	. •	HTG.LOSS	SEN.GAIN		HTG.CFM CFM/SF.	CLG.CFM CFM/SF.
3 Heaton Pavilion 4 PM AUGUST	2572816	0	33746176 1,157,767	**	0.00	1532192
ZONE PEAK TOTALS TOTAL ZONES: 1	2572816	0 0	33746176 1,157,767		0.00	1532192

```
*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
                                                                  READING, PA 19603
** ENTECH ENGINEERING **
                                     01/05/95
                                                                             PAGE 20
Walter Reed Med Ctr
******** AIR SYSTEM # 3 (AHU_3) TOTAL LOAD SUMMARY **********
  R HANDLER DESC: AHU 3 WITH CV (PROPORTION) TERMINALS
SENSIBLE HEAT RATIO: 0.99 ---- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING
AIR SYSTEM PEAK TIME: 4 PM IN AUGUST
OUTDOOR CONDITIONS: 92 DB, 75 WB, 103.47 GRAINS
                                                            INSIDE: 75 DB, 50% RH
SUMMER: VENT CONTROLS OUTSIDE AIR ---- WINTER: NONE CONTROLS OUTSIDE AIR
                                       0 BTUH
ZONE SPACE SEN.LOSS: INFILTRATION SEN.LOSS:
                                       0 BTUH (
0 BTUH (
0 BTUH
                                                           0 CFM)
0 CFM)
OUTSIDE AIR SEN.LOSS:
SUPPLY DUCT SEN.LOSS: RETURN DUCT SEN.LOSS:
                                        0 BTUH
                                                                               0 BTUH
TOTAL SYSTEM SEN.LOSS:
SUPPLY AIR: 0 / (0.999 \text{ X } 1.08 \text{ X } 0) = ( 0 \text{ CFM})
WINTER VENT OUTSIDE AIR (0.00\% \text{ OF SUPPLY}): ( 0 \text{ CFM})
ZONE SPACE SEN.GAIN: 33,691,176 BTUH
                               0 BTUH ( 0 CFM)
INFILTRATION SEN.GAIN:
DRAW-THRU FAN SEN.GAIN:
                                         O BTUH
SUPPLY DUCT SEN.GAIN:
                                         0 BTUH
                                                                    33,691,176 BTUH
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:
SUPPLY: 33,691,176 / (0.999 \times 1.10 \times 20) = (1,532,192 \text{ CFM})
  MMER VENT OUTSIDE AIR (75.6% OF SUPPLY): ( 1,157,767 CFM)
                                         0 BTUH
RETURN DUCT SEN.GAIN:
OUTSIDE AIR SEN.GAIN: 21,639,294 BTUH ( 1,157,767 CFM)
BLOW-THRU FAN SEN.GAIN: 0 BTUH
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:
                                                                    21,639,294 BTUH
TOTAL SEN.GAIN ON AIR HANDLING SYSTEM:
                                                                    55,330,470 BTUH
ZONE SPACE LAT.GAIN: 396,000 BTUH
INFILTRATION LAT.GAIN: 0 BTUH ( 0 CFM)
OUTSIDE AIR LAT.GAIN: 30,526,356 BTUH ( 1,157,767 CFM)
                                                                    30,922,356 BTUH
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:
                                                                    86,252,826 BTUH
TOTAL SYSTEM SENSIBLE AND LATENT GAIN:
```

TOTAL TONNAGE REQUIRED WITH OUTSIDE AIR:

7,187.74 TONS

*** FULL COMMERCIA  ** ENTECH ENGINEER Walter Reed Med Ct  ********	ING **	01/05	5/95		EVELOPMENT READING,	PA 19603 PAGE 21
. ZONE - DESCRIE		HTG.LOSS	SEN.GAIN O.A. CFM		HTG.CFM CFM/SF.	CLG.CFM CFM/SF.
4 Delano Hall 4 PM AUGUST	81225	0	2,416,064 24,672	-	0.00	109,201
ZONE PEAK TOTALS TOTAL ZONES: 1	81,225	0	2,416,064 24,672	•	0.00	109,201 1.34

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*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
                                       READING, PA 19603
** ENTECH ENGINEERING **
Walter Reed Med Ctr
******* AIR SYSTEM # 4 (AHU 4) TOTAL LOAD SUMMARY ***********
 R HANDLER DESC: AHU 4 WITH CV (PROPORTION) TERMINALS
SENSIBLE HEAT RATIO: 0.96 ---- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING
AIR SYSTEM PEAK TIME: 4 PM IN AUGUST
OUTDOOR CONDITIONS: 92 DB, 75 WB, 103.47 GRAINS INSIDE: 75 DB, 50% RH
SUMMER: VENT CONTROLS OUTSIDE AIR ---- WINTER: NONE CONTROLS OUTSIDE AIR
ZONE SPACE SEN.LOSS:
INFILTRATION SEN.LOSS:
                                      0 BTUH
                                        0 BTUH ( 0 CFM)
0 BTUH ( 0 CFM)
0 BTUH
0 BTUH
OUTSIDE AIR SEN.LOSS:
SUPPLY DUCT SEN.LOSS: RETURN DUCT SEN.LOSS:
TOTAL SYSTEM SEN.LOSS:
                                                                                  0 BTUH
SUPPLY AIR: 0 / (0.999 X 1.08 X 0) = ( 0 CFM)
WINTER VENT OUTSIDE AIR (0.00% OF SUPPLY): ( 0 CFM)
ZONE SPACE SEN.GAIN: 2,401,214 BTUH
INFILTRATION SEN.GAIN: 0 BTUH ( 0 CFM)
DRAW-THRU FAN SEN.GAIN: 0 BTUH
SUPPLY DUCT SEN.GAIN: 0 BTUH
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:
                                                                          2,401,214 BTUH
SUPPLY: 2,401,214 / (0.999 X 1.10 X 20) = ( 109,201 CFM)
MMER VENT OUTSIDE AIR (22.6% OF SUPPLY): ( 24,672 CFM)
RETURN DUCT SEN.GAIN: 0 BTUH
RETURN PLENUM SEN.GAIN: 0 BTUH
OUTSIDE AIR SEN.GAIN: 461,133 BTUH ( 24,672 CFM)
BLOW-THRU FAN SEN.GAIN: 0 BTUH
RETURN DUCT SEN.GAIN:
                                          O BTUH
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:
                                                                           461,133 BTUH
                                                                         2,862,347 BTUH
TOTAL SEN.GAIN ON AIR HANDLING SYSTEM:
ZONE SPACE LAT.GAIN: 106,920 BTUH
INFILTRATION LAT.GAIN: 0 BTUH ( 0 CFM)
OUTSIDE AIR LAT.GAIN: 650,516 BTUH ( 24,672 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:
                                                                            757,436 BTUH
TOTAL SYSTEM SENSIBLE AND LATENT GAIN:
                                                                       3,619,783 BTUH
```

301.65 TONS

*** FULL COMMERCIAL F  ** ENTECH ENGINEERING Walter Reed Med Ctr  ***********************************	3 **	01/05	5/95			PA 19603 PAGE 23
N. ZONE - DESCRIPTION NO. PEAK TIME & MONT		G.LOSS A. CFM	SEN.GAIN	LAT.GAIN EXH. CFM	HTG.CFM CFM/SF.	CLG.CFM CFM/SF.
5 Admin/Computer T- 3 PM AUGUST	-2 55225	0	1,507,399 9,528	22,000	0.00	68,428
ZONE PEAK TOTALS TOTAL ZONES: 1	55,225	0	1,507,399 9,528	22,000	0.00	68,428 1.24

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*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
                                                                                                                                                                                             READING, PA 19603
 ** ENTECH ENGINEERING **
                                                                                                         01/05/95
                                                                                                                                                                                                                          PAGE 24
 Walter Reed Med Ctr
 ******** AIR SYSTEM # 5 (AHU_5) TOTAL LOAD SUMMARY ************
       R HANDLER DESC: AHU 5 WITH CV (PROPORTION) TERMINALS
  SENSIBLE HEAT RATIO: \overline{0}.99 ---- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING
AIR SYSTEM PEAK TIME: 3 PM IN AUGUST
                                                                                                                                                                            INSIDE: 75 DB, 50% RH
 OUTDOOR CONDITIONS: 93 DB, 75 WB, 101.84 GRAINS
 SUMMER: VENT CONTROLS OUTSIDE AIR ---- WINTER: NONE CONTROLS OUTSIDE AIR
ZONE SPACE SEN.LOSS:

INFILTRATION SEN.LOSS:

OUTSIDE AIR SEN.LOSS:

SUPPLY DUCT SEN.LOSS:

RETURN DUCT SEN.LOSS:

OBTUH

RETURN DUCT SEN.LOSS:

OBTUH
                                                                                                                                                                                                                                 0 BTUH
 TOTAL SYSTEM SEN.LOSS:
SUPPLY AIR: 0 / (0.999 \times 1.08 \times 0) = (0.999 \times 1.08 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) 
ZONE SPACE SEN.GAIN: 1,504,649 BTUH
INFILTRATION SEN.GAIN: 0 BTUH
DRAW-THRU FAN SEN.GAIN: 0 BTUH
                                                                                          0 BTUH ( 0 CFM)
 SUPPLY DUCT SEN.GAIN:
                                                                                                                    0 BTUH
 TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:
                                                                                                                                                                                                    1,504,649 BTUH
 SUPPLY: 1,504,649 / (0.999 X 1.10 X 20) = ( 68,428 CFM)
MMER VENT OUTSIDE AIR (13.9% OF SUPPLY): ( 9,528 CFM)
RETURN DUCT SEN.GAIN: 0 BTUH
RETURN PLENUM SEN.GAIN: 0 BTUH
OUTSIDE AIR SEN.GAIN: 188,559 BTUH ( 9,528 CFM)
BLOW-THRU FAN SEN.GAIN: 0 BTUH
 RETURN DUCT SEN.GAIN:
                                                                                                                  0 BTUH
                                                                                                                                                                                                             188,559 BTUH
 TOTAL SEN.GAIN ON RETURN SIDE OF COIL:
 TOTAL SEN.GAIN ON AIR HANDLING SYSTEM:
                                                                                                                                                                                                    1,693,208 BTUH
ZONE SPACE LAT.GAIN: 19,800 BTUH
INFILTRATION LAT.GAIN: 0 BTUH ( 0 CFM)
OUTSIDE AIR LAT.GAIN: 240,685 BTUH ( 9,528 CFM)
 TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:
                                                                                                                                                                                                             260,485 BTUH
 TOTAL SYSTEM SENSIBLE AND LATENT GAIN:
                                                                                                                                                                                                    1,953,693 BTUH
```

162.81 TONS

*** FULL COMMERCIAL HVAC LC  ** ENTECH ENGINEERING **  Walter Reed Med Ctr  ****** AIR SY	01/05/95	F	VELOPMENT READING,	PA 19603 PAGE 25
NO. PEAK TIME & MONTH ARE			HTG.CFM CFM/SF.	CLG.CFM CFM/SF.
6 Abrams Hall Bldg.117640 5 PM AUGUST	0 0 3,667,935 0 20,530	•	0.00	166,183
ZONE PEAK TOTALS 176,40 TOTAL ZONES: 1	0 0 3,667,935 0 20,530	•	0.00	166,183

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*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
                                                                                                        01/05/95
 ** ENTECH ENGINEERING **
                                                                                                                                                                                            READING, PA 19603
 Walter Reed Med Ctr
 ******* AIR SYSTEM # 6 (AHU_6) TOTAL LOAD SUMMARY ***********
      R HANDLER DESC: AHU 6 WITH CV (PROPORTION) TERMINALS
 SENSIBLE HEAT RATIO: 0.97 ---- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING
 AIR SYSTEM PEAK TIME: 5 PM IN AUGUST
 OUTDOOR CONDITIONS: 91 DB, 75 WB, 105.09 GRAINS INSIDE: 75 DB, 50% RH
 SUMMER: VENT CONTROLS OUTSIDE AIR ---- WINTER: NONE CONTROLS OUTSIDE AIR
                                                                                   0 BTUH
0 BTUH
                                                                                                            0 BTUH ( 0 CFM)
0 BTUH ( 0 CFM)
0 BTUH
 ZONE SPACE SEN.LOSS:
 INFILTRATION SEN.LOSS:
 OUTSIDE AIR SEN.LOSS:
SUPPLY DUCT SEN.LOSS: RETURN DUCT SEN.LOSS:
                                                                                                                  0 BTUH
 TOTAL SYSTEM SEN.LOSS:
                                                                                                                                                                                                                               0 BTUH
SUPPLY AIR: 0 / (0.999 \times 1.08 \times 0) = (0.999 \times 1.08 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) 
ZONE SPACE SEN.GAIN: 3,654,185 BTUH
INFILTRATION SEN.GAIN: 0 BTUH ( 0 CFM)
DRAW-THRU FAN SEN.GAIN: 0 BTUH
SUPPLY DUCT SEN.GAIN: 0 BTUH
 TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:
                                                                                                                                                                                                     3,654,185 BTUH
SUPPLY: 3,654,185 / (0.999 X 1.10 X 20) = ( 166,183 CFM)
MMER VENT OUTSIDE AIR (12.3% OF SUPPLY): ( 20,530 CFM)
RETURN DUCT SEN.GAIN: 0 BTUH
RETURN PLENUM SEN.GAIN: 0 BTUH
OUTSIDE AIR SEN.GAIN: 361,145 BTUH ( 20,530 CFM)
BLOW-THRU FAN SEN.GAIN: 0 BTUH
 TOTAL SEN.GAIN ON RETURN SIDE OF COIL:
                                                                                                                                                                                                           361,145 BTUH
 TOTAL SEN.GAIN ON AIR HANDLING SYSTEM:
                                                                                                                                                                                                 4,015,330 BTUH
ZONE SPACE LAT.GAIN: 99,000 BTUH
INFILTRATION LAT.GAIN: 0 BTUH ( 0 CFM)
OUTSIDE AIR LAT.GAIN: 564,022 BTUH ( 20,530 CFM)
 TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:
                                                                                                                                                                                                            663,022 BTUH
TOTAL SYSTEM SENSIBLE AND LATENT GAIN:
                                                                                                                                                                                                 4,678,352 BTUH
```

389.86 TONS

*** FULL COMMERCIAL HVAC LC  ** ENTECH ENGINEERING **  Walter Reed Med Ctr  ***************** AIR SY	01/05	/95	•	EVELOPMENT READING, *****	PA 19603 PAGE 27
. ZONE - DESCRIPTION FLOOR NO. PEAK TIME & MONTH ARE		SEN.GAIN			CLG.CFM CFM/SF.
7 Guest House Bldg # 1742 5 PM AUGUST	0 0	598,827 2,400		0.00	27,083 1.55
ZONE PEAK TOTALS 17,42 TOTAL ZONES: 1	0 0	598,827 2,400	•	°°° 0.00	27,083 1.55

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*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
                                                    READING, PA 19603
** ENTECH ENGINEERING **
Walter Reed Med Ctr 01/05/95
******* AIR SYSTEM # 7 (AHU 7) TOTAL LOAD SUMMARY ***********
  R HANDLER DESC: AHU 7 WITH CV (PROPORTION) TERMINALS
SENSIBLE HEAT RATIO: 0.96 ---- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING
AIR SYSTEM PEAK TIME: 5 PM IN AUGUST
OUTDOOR CONDITIONS: 91 DB, 75 WB, 105.09 GRAINS _ INSIDE: 75 DB, 50% RH
SUMMER: VENT CONTROLS OUTSIDE AIR ---- WINTER: NONE CONTROLS OUTSIDE AIR
                                      O BTUH (
O BTUH (
O BTUH
                                        0 BTUH
ZONE SPACE SEN.LOSS:
                                                           0 CFM)
0 CFM)
INFILTRATION SEN.LOSS:
OUTSIDE AIR SEN.LOSS:
SUPPLY DUCT SEN.LOSS:
RETURN DUCT SEN.LOSS:
                                        0 BTUH
TOTAL SYSTEM SEN.LOSS:
                                                                              0 BTUH
SUPPLY AIR: 0 / (0.999 X 1.08 X 0) = ( 0 CFM)
WINTER VENT OUTSIDE AIR (0.00% OF SUPPLY): ( 0 CFM)
ZONE SPACE SEN.GAIN: 595,527 BTUH
INFILTRATION SEN.GAIN: 0 BTUH
DRAW-THRU FAN SEN.GAIN: 0 BTUH
SUPPLY DUCT SEN.GAIN: 0 BTUH
                                        0 BTUH ( ` 0 CFM)
                                         0 BTUH
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:
                                                                      595,527 BTUH
MMER VENT OUTSIDE AIR (8.86% OF SUPPLY): ( 27,083 CFM) ( 2,400 CFM)
RETURN DUCT SEN.GAIN: 0 BTUH
RETURN PLENUM SEN.GAIN: 0 BTUH
OUTSIDE AIR SEN.GAIN: 42,219 BTUH ( 2,400 CFM)
BLOW-THRU FAN SEN.GAIN: 0 BTUH
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:
                                                                        42,219 BTUH
TOTAL SEN.GAIN ON AIR HANDLING SYSTEM:
                                                                       637,746 BTUH
ZONE SPACE LAT.GAIN: 23,760 BTUH
INFILTRATION LAT.GAIN: 0 BTUH ( 0 CFM)
OUTSIDE AIR LAT.GAIN: 65,935 BTUH ( 2,400 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:
                                                                        89,695 BTUH
TOTAL SYSTEM SENSIBLE AND LATENT GAIN:
                                                                      727,441 BTUH
TOTAL TONNAGE REQUIRED WITH OUTSIDE AIR:
                                                                        60.62 TONS
```

*** FULL COMMERCIAL  ** ENTECH ENGINEERI Walter Reed Med Ctr  ********	NG **	01/05	5/95	]	VELOPMENT READING,	PA 19603 PAGE 29
. ZONE - DESCRIPT		HTG.LOSS O.A. CFM	SEN.GAIN	LAT.GAIN EXH. CFM	HTG.CFM CFM/SF.	CLG.CFM CFM/SF.
8 WRAIR Bldg #40 4 PM AUGUST	218089	0	5,547,441	110,000	0.00	251,659 1.15
ZONE PEAK TOTALS TOTAL ZONES: 1	218,089	0 0	5,547,441 193,881	110,000	0.00	251,659 1.15
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*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
                                                         READING, PA 19603
** ENTECH ENGINEERING **
Walter Reed Med Ctr
                                     01/05/95
******* AIR SYSTEM # 8 (AHU 8) TOTAL LOAD SUMMARY ***********
  R HANDLER DESC: AHU 8 WITH CV (PROPORTION) TERMINALS
SENSIBLE HEAT RATIO: \overline{0}.98 ---- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING
AIR SYSTEM PEAK TIME: 4 PM IN AUGUST
OUTDOOR CONDITIONS: 92 DB, 75 WB, 103.47 GRAINS INSIDE: 75 DB, 50% RH
SUMMER: VENT CONTROLS OUTSIDE AIR ---- WINTER: NONE CONTROLS OUTSIDE AIR
                                          0 BTUH
ZONE SPACE SEN.LOSS:
                                        0 BTUH (
0 BTUH (
0 BTUH
                                                              0 CFM)
INFILTRATION SEN.LOSS:
                                                               0 CFM)
OUTSIDE AIR SEN.LOSS:
SUPPLY DUCT SEN.LOSS:
RETURN DUCT SEN.LOSS:
                                          O BTUH
TOTAL SYSTEM SEN.LOSS:
                                                                                  0 BTUH
SUPPLY AIR: 0 / (0.999 X 1.08 X 0) = ( 0 CFM)
WINTER VENT OUTSIDE AIR (0.00% OF SUPPLY): ( 0 CFM)
ZONE SPACE SEN.GAIN: 5,533,691 BTUH
INFILTRATION SEN.GAIN: 0 BTUH
DRAW-THRU FAN SEN.GAIN: 0 BTUH
SUPPLY DUCT SEN.GAIN: 0 BTUH
                                          O BTUH ( O CFM)
                                                                         5,533,691 BTUH
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:
SUPPLY: 5,533,691 / (0.999 X 1.10 X 20) = ( 251,659 CFM)
MMER VENT OUTSIDE AIR (77.0% OF SUPPLY): ( 193,881 CFM)
RETURN DUCT SEN.GAIN: 0 BTUH
RETURN PLENUM SEN.GAIN: 0 BTUH
OUTSIDE AIR SEN.GAIN: 3,623,741 BTUH ( 193,881 CFM)
BLOW-THRU FAN SEN.GAIN: 0 BTUH
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:
                                                                         3,623,741 BTUH
TOTAL SEN.GAIN ON AIR HANDLING SYSTEM:
                                                                        9,157,432 BTUH
ZONE SPACE LAT.GAIN: 99,000 BTUH
INFILTRATION LAT.GAIN: 0 BTUH ( 0 CFM)
OUTSIDE AIR LAT.GAIN: 5,111,979 BTUH ( 193,881 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:
                                                                         5,210,979 BTUH
TOTAL SYSTEM SENSIBLE AND LATENT GAIN:
                                                                       14,368,411 BTUH
```

1,197.37 TONS

*** FULL COMMERCIAL HVAC I  ** ENTECH ENGINEERING **  Walter Reed Med Ctr  ******* AIR S	01/05/	95	READING,	PA 19603 PAGE 31
. ZONE - DESCRIPTION FLO		SEN.GAIN LAT.O		CLG.CFM CFM/SF.
9 Fitness Ctr. Bldg. 345 5 PM AUGUST	96 0 1	,757,187 22, 7,516	000 0.00	79,787
ZONE PEAK TOTALS 34,5 TOTAL ZONES: 1	96 0 1	,757,187 22, 7,516	000 0.00	79,787

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*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
                                                                                                                  READING, PA 19603
 ** ENTECH ENGINEERING **
                                                                       01/05/95
 Walter Reed Med Ctr
 ******* AIR SYSTEM # 9 (AHU_9) TOTAL LOAD SUMMARY ***********
    R HANDLER DESC: AHU 9 WITH CV (PROPORTION) TERMINALS
 SENSIBLE HEAT RATIO: \overline{0}.99 ---- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING
 AIR SYSTEM PEAK TIME: 5 PM IN AUGUST
 OUTDOOR CONDITIONS: 91 DB, 75 WB, 105.09 GRAINS INSIDE: 75 DB, 50% RH
 SUMMER: VENT CONTROLS OUTSIDE AIR ---- WINTER: NONE CONTROLS OUTSIDE AIR
ZONE SPACE SEN.LOSS:
INFILTRATION SEN.LOSS:
                                                                                  0 BTUH
                                                                                      0 BTUH ( 0 CFM)
0 BTUH ( 0 CFM)
0 BTUH
OUTSIDE AIR SEN.LOSS:
 SUPPLY DUCT SEN.LOSS:
                                                                                          0 BTUH
 RETURN DUCT SEN.LOSS:
 TOTAL SYSTEM SEN.LOSS:
                                                                                                                                                                                  0 BTUH
SUPPLY AIR: 0 / (0.999 \times 1.08 \times 0) = (0.999 \times 0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) = (0.000) =
 ZONE SPACE SEN.GAIN: 1,754,437 BTUH
INFILTRATION SEN.GAIN:
DRAW-THRU FAN SEN.GAIN:
SUPPLY DUCT SEN.GAIN:
                                                                                          O BTUH ( O CFM)
                                                                                             O BTUH
                                                                                              0 BTUH
 TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:
                                                                                                                                                             1,754,437 BTUH
 SUPPLY: 1,754,437 / (0.999 X 1.10 X 20) = ( 79,787 CFM)
MMER VENT OUTSIDE AIR (9.42% OF SUPPLY): ( 7,516 CFM)
RETURN DUCT SEN.GAIN: 0 BTUH
RETURN PLENUM SEN.GAIN: 0 BTUH
OUTSIDE AIR SEN.GAIN: 132,215 BTUH ( 7,516 CFM)

GEN GAIN: 0 BTUH
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:
                                                                                                                                                                  132,215 BTUH
                                                                                                                                                             1,886,652 BTUH
TOTAL SEN.GAIN ON AIR HANDLING SYSTEM:
ZONE SPACE LAT.GAIN: 19,800 BTUH
INFILTRATION LAT.GAIN: 0 BTUH ( 0 CFM)
OUTSIDE AIR LAT.GAIN: 206,488 BTUH ( 7,516 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:
                                                                                                                                                                  226,288 BTUH
TOTAL SYSTEM SENSIBLE AND LATENT GAIN:
                                                                                                                                                           2,112,940 BTUH
```

176.08 TONS

*** FULL COMMERCIAL HVAC LOADS  ** ENTECH ENGINEERING **  Walter Reed Med Ctr	01/05	/95		READING,	PA 19603 PAGE 33
****** AIR SYSTEM	# 10 (AHU	_10) ZONE	SUMMARY **	*****	*****
ZONE - DESCRIPTION FLOOR NO. PEAK TIME & MONTH AREA	HTG.LOSS O.A. CFM	SEN.GAIN O.A. CFM	LAT.GAIN EXH. CFM	HTG.CFM CFM/SF.	CLG.CFM CFM/SF.
10 AFIP Storage Bldg. 14641 6 PM AUGUST	0	310,328	16,500	0.00	14,019
ZONE PEAK TOTALS 14,641 TOTAL ZONES: 1	0	310,328	16,500	0 0.00	14,019

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*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
                                         READING, PA 19603
** ENTECH ENGINEERING **
Walter Reed Med Ctr
******* AIR SYSTEM # 10 (AHU 10) TOTAL LOAD SUMMARY *********
  R HANDLER DESC: AHU 10 WITH CV (PROPORTION) TERMINALS
SENSIBLE HEAT RATIO: \overline{0}.95 ---- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING
AIR SYSTEM PEAK TIME: 5 PM IN AUGUST
OUTDOOR CONDITIONS: 91 DB, 75 WB, 105.09 GRAINS INSIDE: 75 DB, 50% RH
BECAUSE OF THE DIVERSITY IN ZONE, PLENUM, AND VENT. LOADS, THE ZONE SENSIBLE
PEAK TIME IN AUGUST AT 6 PM IS DIFFERENT FROM THE TOTAL SYS. PEAK TIME
HENCE, THE AIR SYSTEM CFM WAS COMPUTED USING A ZONE SEN. LOAD OF 308,265
SUMMER: VENT CONTROLS OUTSIDE AIR ---- WINTER: NONE CONTROLS OUTSIDE AIR
DINE SPACE SEN.LOSS:

OBTUH

INFILTRATION SEN.LOSS:

OUTSIDE AIR SEN.LOSS:

SUPPLY DUCT SEN.LOSS:

RETURN DUCT SEN.LOSS:

OBTUH

RETURN DUCT SEN.LOSS:

OBTUH

RETURN DUCT SEN.LOSS:

OBTUH
                                                                                       0 BTUH
SUPPLY AIR: 0 / (0.999 \times 1.08 \times 0) = ( 0 CFM) WINTER VENT OUTSIDE AIR (0.00\% \text{ OF SUPPLY}): ( 0 CFM)
ZONE SPACE SEN.GAIN: 304,501 BTUH
INFILTRATION SEN.GAIN: 0 BTUH
DRAW-THRU FAN SEN.GAIN: 0 BTUH
PPLY DUCT SEN.GAIN: 0 BTUH
                                                                0 CFM)
                                             O BTUH (
                                             O BTUH
 TAL SEN. GAIN ON SUPPLY SIDE OF COIL:
                                                                                304,501 BTUH
SUPPLY AIR:308,265 / (0.999 \times 1.10 \times 20) = (14,019 \text{ CFM})
SUMMER VENT OUTSIDE AIR (10.7\% \text{ OF SUPPLY}): (1,500 \text{ CFM})
RETURN DUCT SEN.GAIN: 0 BTUH
RETURN PLENUM SEN.GAIN: 0 BTUH
OUTSIDE AIR SEN.GAIN: 26,387 BTUH ( 1,500 CFM)
BLOW-THRU FAN SEN.GAIN: 0 BTUH
RETURN DUCT SEN.GAIN:
                                            O BTUH
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:
                                                                                26,387 BTUH
TOTAL SEN.GAIN ON AIR HANDLING SYSTEM:
                                                                                330,888 BTUH
ZONE SPACE LAT.GAIN: 14,850 BTUH
INFILTRATION LAT.GAIN: 0 BTUH ( 0 CFM)
OUTSIDE AIR LAT.GAIN: 41,210 BTUH ( 1,500 CFM)
                                                                                 56,060 BTUH
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:
TOTAL SYSTEM SENSIBLE AND LATENT GAIN:
                                                                                386,948 BTUH
```

32.25 TONS

*** FULL COMMERCIAL HVAC ** ENTECH ENGINEERING ** Walter Reed Med Ctr ***** AIR S	• 01/05/9	95	DEVELOPMENT INC *** READING, PA 19603 PAGE 35 *******
. 20112		SEN.GAIN LAT.GAI O.A. CFM EXH. CF	
11 AFIP Path Lab Bldg34 5 PM AUGUST		660,529 110,00 197,707	0 0 256,802 0 0.00 0.74
ZONE PEAK TOTALS 348 TOTAL ZONES: 1		.660,529 110,00 197,707	0 0 256,802 0 0.00 0.74

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*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
                                                                                                                                                                                   READING, PA 19603
** ENTECH ENGINEERING **
                                                                                                   01/05/95
Walter Reed Med Ctr
********* AIR SYSTEM # 11 (AHU_11) TOTAL LOAD SUMMARY ***********
      R HANDLER DESC: AHU 11 WITH CV (PROPORTION) TERMINALS
SENSIBLE HEAT RATIO: \overline{0}.98 ---- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING
                                                                                                                                                                              7
AIR SYSTEM PEAK TIME: 5 PM IN AUGUST
OUTDOOR CONDITIONS: 91 DB, 75 WB, 105.09 GRAINS _ INSIDE: 75 DB, 50% RH
SUMMER: VENT CONTROLS OUTSIDE AIR ---- WINTER: NONE CONTROLS OUTSIDE AIR
                                                                                                           0 BTUH
ZONE SPACE SEN.LOSS:
                                                                                                                                                                  0 CFM)
INFILTRATION SEN.LOSS:
                                                                                                           O BTUH (
                                                                                                        0 BTUH (
0 BTUH
OUTSIDE AIR SEN.LOSS:
                                                                                                                                                                   0 CFM)
SUPPLY DUCT SEN.LOSS:
RETURN DUCT SEN.LOSS:
                                                                                                           0 BTUH
                                                                                                                                                                                                                     0 BTUH
TOTAL SYSTEM SEN.LOSS:
SUPPLY AIR: 0 / (0.999 \times 1.08 \times 0) = (0.999 \times 1.08 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) = (0.008 \times 0) 
ZONE SPACE SEN.GAIN: 5,646,779 BTUH
INFILTRATION SEN.GAIN:
DRAW-THRU FAN SEN.GAIN:
SUPPLY DUCT SEN.GAIN:
                                                                                                             O BTUH ( O CFM)
                                                                                                                0 BTUH
                                                                                                                0 BTUH
                                                                                                                                                                                            5.646,779 BTUH
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:
 SUPPLY: 5,646,779 / (0.999 X 1.10 X 20) = ( 256,802 CFM)
MMER VENT OUTSIDE AIR (77.0% OF SUPPLY): ( 197,707 CFM)
RETURN PLENUM SEN.GAIN:

OUTSIDE AIR SEN.GAIN:

BLOW-THRU FAN SEN.GAIN:

TOTAL SEN.GAIN:

OBTUH

197,707 CFM)

BTOTAL SEN.GAIN:

OBTUH
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:
                                                                                                                                                                                            3,477,883 BTUH
TOTAL SEN.GAIN ON AIR HANDLING SYSTEM:
                                                                                                                                                                                            9,124,662 BTUH
ZONE SPACE LAT.GAIN: 99,000 BTUH
INFILTRATION LAT.GAIN: 0 BTUH ( 0 CFM)
OUTSIDE AIR LAT.GAIN: 5,431,616 BTUH ( 197,707 CFM)
                                                                                                                                                                                            5,530,616 BTUH
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:
                                                                                                                                                                                        14,655,278 BTUH
TOTAL SYSTEM SENSIBLE AND LATENT GAIN:
```

TOTAL TONNAGE REQUIRED WITH OUTSIDE AIR:

1,221.27 TONS

*** FULL COMMERCIAL HV.  ** ENTECH ENGINEERING Walter Reed Med Ctr  ****** AIR	* *	01/05	/95		VELOPMENT READING,	PA 19603 PAGE 37
ZONE - DESCRIPTION		HTG.LOSS	_12) ZONE SEN.GAIN	LAT.GAIN	HTG.CFM	CLG.CFM
NO. PEAK TIME & MONTH	AREA	O.A. CFM	O.A. CFM	EXH. CFM	CFM/SF.	CFM/SF.
12 MRI Building #5 4 PM AUGUST	8836	0 0	242,689 10,962	13,200	0.00	10,962 1.24
ZONE PEAK TOTALS TOTAL ZONES: 1	8,836	0	242,689 10,962	13,200	0.00	10,962

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*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***
                                                        READING, PA 19603
** ENTECH ENGINEERING **
Walter Reed Med Ctr 01/05/95
******* AIR SYSTEM # 12 (AHU_12) TOTAL LOAD SUMMARY *********
  R HANDLER DESC: AHU 12 WITH CV (PROPORTION) TERMINALS
SENSIBLE HEAT RATIO: 0.95 ---- THIS SYSTEM OCCURS 1 TIME(S) IN THE BUILDING
AIR SYSTEM PEAK TIME: 4 PM IN AUGUST
OUTDOOR CONDITIONS: 92 DB, 75 WB, 103.47 GRAINS INSIDE: 75 DB, 50% RH
SUMMER: VENT CONTROLS OUTSIDE AIR ---- WINTER: NONE CONTROLS OUTSIDE AIR
ZONE SPACE SEN.LOSS:
SEN.LOSS:
                             0 BTUH
0 BTUH ( 0 CFM)
0 BTUH ( 0 CFM)
0 BTUH
OUTSIDE AIR SEN.LOSS:
SUPPLY DUCT SEN.LOSS: RETURN DUCT SEN.LOSS:
TOTAL SYSTEM SEN.LOSS:
                                                                                  0 BTUH
SUPPLY AIR: 0 / (0.999 X 1.08 X 0) = ( 0 CFM)
WINTER VENT OUTSIDE AIR (0.00% OF SUPPLY): ( 0 CFM)
ZONESPACESEN.GAIN:241,039BTUHINFILTRATIONSEN.GAIN:0BTUHDRAW-THRU FANSEN.GAIN:0BTUHSUPPLYDUCTSEN.GAIN:0BTUH
                                          0 BTUH ( 0 CFM)
                                           0 BTUH
                                                                          241,039 BTUH
TOTAL SEN.GAIN ON SUPPLY SIDE OF COIL:
SUPPLY AIR:241,039 / (0.999 X 1.10 X 20) = ( 10,962 CFM)
MMER VENT OUTSIDE AIR ( 100% OF SUPPLY): ( 10,962 CFM)
RETURN DUCT SEN.GAIN: 0 BTUH
RETURN PLENUM SEN.GAIN: 0 BTUH
OUTSIDE AIR SEN.GAIN: 204,886 BTUH ( 10,962 CFM)
BLOW-THRU FAN SEN.GAIN: 0 BTUH
TOTAL SEN.GAIN ON RETURN SIDE OF COIL:
                                                                           204,886 BTUH
                                                                           445,925 BTUH
TOTAL SEN.GAIN ON AIR HANDLING SYSTEM:
ZONE SPACE LAT.GAIN: 11,880 BTUH
INFILTRATION LAT.GAIN: 0 BTUH ( 0 CFM)
OUTSIDE AIR LAT.GAIN: 289,030 BTUH ( 10,962 CFM)
TOTAL LAT.GAIN ON AIR HANDLING SYSTEM:
                                                                           300,910 BTUH
TOTAL SYSTEM SENSIBLE AND LATENT GAIN:
                                                                           746,835 BTUH
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TOTAL TONNAGE REQUIRED WITH OUTSIDE AIR:

62.24 TONS

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***

** ENTECH ENGINEERING **

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## VELOPE REPORT USING SUMMER U-FACTORS:

MATERIAL TYPES		GROSS AREA	GLASS AREA	NET AREA	-U- FACTOR	AREA x	AVERAGE UFACTOR
ROOF	1 2 3 4 5	151502.0 179741.0 29025.0 200966.0 38218.0	0.0 0.0 0.0 0.0 0.0	151502.0 179741.0 29025.0 200966.0 38218.0	0.100 0.100 0.100 0.150 0.500	15150.200 17974.100 2902.500 30144.900 19109.000	0.100 0.100 0.100 0.150 0.500
TOT.ROOF		599452.0	0.0	599452.0	N/A	85280.700	0.142
WALL TOT.WA	1 2 3 4 LL	389984.0 542868.0 14160.0 295665.0 1242677.0	64848.0 119286.0 830.0 34683.0 219647.0	325136.0 423582.0 13330.0 260982.0 1023030.0	0.250 0.090 0.100 0.220 N/A	81284.000 38122.380 1333.000 57416.040 178155.420	0.250 0.090 0.100 0.220 0.174
GLASS TOT.GL	1 2 3 4 AS	44862.0 2247.0 52422.0 120116.0 219647.0	N/A N/A N/A N/A N/A	44862.0 2247.0 52422.0 120116.0 219647.0	1.100 0.550 1.100 0.550 N/A	49348.200 1235.850 57664.200 66063.800 174312.050	1.100 0.550 1.100 0.550 0.794
TOTALS				1842129.0	N/A	437748.170	0.238
WALL DIRECT	ION	WALL AREA	GLASS AREA	WALL NET AREA	W.AVG U-FAC	GLASS AVG U-FACTOR	GLASS AVG SHD.COEFF
N NE E SE S SW W NW		313866.0 0.0 310722.0 0.0 306957.0 0.0 311132.0	58409.0 0.0 52385.0 0.0 56534.0 0.0 52319.0 0.0	255457.0 0.0 258337.0 0.0 250423.0 0.0 258813.0	0.180 0.000 0.169 0.000 0.178 0.000 0.169 0.000	0.817 0.000 0.770 0.000 0.813 0.000 0.771 0.000	0.640 0.000 0.640 0.000 0.640 0.000 0.640 0.000
TOTALS		1242677.0	219647.0	1023030.0	0.174	0.794	0.640

*** FULL COMMERCIAL HVAC LOADS PROGRAM BY ELITE SOFTWARE DEVELOPMENT INC ***

** ENTECH ENGINEERING **

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## ILDING PEAKS IN AUGUST AT 5 PM

BLDG. LOAD	AREA	SEN.	%TOT	LAT.	+ SEN.	= TOTAL	%TOT
DESCRIPTIONS	QUAN	LOSS	LOSS	GAIN	GAIN	GAIN	GAIN
DEBCKII I I OND							
ROOF	599452	0	0.00	0	5803284	5803284	3.89
WALL	1023030	0	0.00	0	4049538	4049538	2.72
GLASS	219647	0	0.00	. 0	12945924	12945924	8.68
SKIN LOADS	1842129	0	0.00	0	22798746	22798746	15.29
LIGHTING	6660940	0	0.00	0	24985189	24985189	16.75
EQUIPMENT	3688486	0	0.00	0	13835513	13835513	9.28
PEOPLE	5009	. 0	0.00	1101870	1377338	2479208	1.66
PARTITION	0	0	0.00	0	0	0	0.00
VENT 0	1887029	0	0.00	51842461	33194914	85037375	57.02
INFL 0	0	0	0.00	0	0	0	0.00
DRAW-THRU FAI	4	0	0.00	0	0	0	0.00
BLOW-THRU FAI	<b>1</b>	0	0.00	0	٠. 0	0	0.00
SUPPLY DUCT		0	0.00	0	0	0	0.00
RETURN DUCT		0	0.00	0	0	0	0.00
BUILDING TOTALS			100.00	52944331	96191700	149136031	100.00

BUILDING SUMMARY LOAD DESCRIPTIONS	SEN. LOSS	%TOT LOSS	LAT. GAIN	+ SEN. GAIN	= TOTAL GAIN	%TOT GAIN
VENTILATION INFILTRATION ZONE LOADS PLENUM LOADS FAN & DUCT LOADS	0 0 0 0	0.00 0.00 0.00 0.00	51842461 0 1101870 0	33194914 0 62996786 0 0	85037375 0 64098656 0	57.02 0.00 42.98 0.00 0.00
BUILDING TOTALS	0	100.00	52944331	96191700	149136031	100.00

TOTAL BUILDING SUPPLY AIR (BASED ON A 19.9 TD): 2,887,380 CFM TOTAL BUILDING VENT AIR (65.34% OF SUPPLY): 1,887,029 CFM

TOTAL CONDITIONED AIR SPACE:

SUPPLY AIR CFM/SQ.FT. OF CONDITIONED SPACE:

SQ.FT OF CONDITIONED AIR SPACE PER TON:

TONNAGE PER SQ.FT OF CONDITIONED AIR SPACE:

3,803,651 SQ.FT

0.7591 CFM/SQ.FT

306.0549 SQ.FT/TON

0.0033 TONS/SQ.FT

TOTAL TONNAGE REQUIRED WITH OUTSIDE AIR: 12,428.00 TONS

ENTECH ENGINEERING

EZDOR - ELITE SOFTWARE DEVELOPMENT INC

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BL06 48

PDL RUN 1

PA 19603 = HOURLY-REPORT READING, REP_2 PAGE 1- 1

HHDDMM	OPEN-CEN	OPEN-CEN	OPEN-CEN	CERAMIC-	CERAMIC-	
MMDOHH .	T-CHLR	T-CHLR	T-CHLR	TWR	TWR	-
	LOAD	BLECTRIC	SIZES	FAN	PUMP	_
	DOAD	USE	RUNNING	ELEC	ELEC	
	BTU/HR	BTU/HR	KUMING	BTU/HR	BTU/HR	
	BIOTER	B10/IIK		210,111	2.0,	
	( 1)	(3)	( 6)	(20)	(21)	
	SUMMARY (JAN)					
MN	7604153.	3252076.		0.	400831.	
MX	23643312.	6504046.		370458.	801662.	
SM	11505107968.	3749958912.		127587952.	462559136.	
AV	15463855.	5040268.	2.	171489.	621719.	
MONTHLY	SUMMARY (FEB)					
MIN	7725983.	3252094.	1.	0.	400831.	
MX	23764504.	6503864.	2.	371083.	801662.	
SM	10840133632.	3472866048.	1069.	129093968.	428488512.	
AV	16131151.	5167956.	2.	192104.	637632.	
MONTHLY	SUMMARY (MAR)					
MN	9393389.	3252037.	1.	0.	400831.	
MX	30042880.	6504056.	2.	407908.	801662.	
SM	13259436032.	4118991360.	1269.	172123728.	508654784.	
AV	17821822.	5536279.	2.	231349.	683676.	
MONTHLY	SUMMARY (APR)					*
MN	9907528.	3252039.	1.	0.	400831.	
MX	30345800.	6503964.	2.	683378.	801662.	
SM	14343021568.	4221911552.		199862448.	522283104.	
AV	19920864.	5863766.	2.	277587.	725393.	
MONTHLY	SUMMARY (MAY)					
MIN	11302996.	3252055.		0.	400831.	
MX	30345800.	6503863.		899035.	801662.	
SM	18089349120.			285297536.	575593600.	
AV	24313642.	6200323.	2.	383464.	773647.	
MONTHLY	SUMMARY (JUN)					
MN	13956871.	3252231.		0.	400831.	
MX	45523664.	10372393.		1021712.	1202494.	
SM	27223304192.				805269888.	
AV	37810144.	9010320.	3.	740499.	1118430.	
MONTHLY	SUMMARY (JUL)		•			
MIN	15250850.	6271049.		0.	801662.	
MX	60615512.	14523526.		1021712.	1603325.	
SM	33193576448.	7658600960.		638714304.	927122368.	
VA	44615024.	10293818.	3.	858487.	1246132.	

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PDL RUN 1 READING, REP_2

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..... -----OPEN-CEN OPEN-CEN CERAMIC-CERAMIC-OPEN-CEN T-CHLR T-CHLR TWR T-CHLR LOAD ELECTRIC SIZES FAN PUMP USE RUNNING ELEC RLEC BTU/HR BTU/HR BTU/HR BTU/HR ----(3) ----(6) ---- (20) ----(21) ----( 1) MONTHLY SUMMARY (AUG) 400831. 3252186. MN 14565689. 1. 4. 1021712. 1603325. 14368309. MX 60555920. 33017518080. 7731707904. 2353. 628720960. 943155648. SM A۷ 44378384. 10392081. 3. 845055. 1267682. MONTHLY SUMMARY (SEP) 3252064. 400831. MN 12875649. 1021712. 1202494. 45523576. 10303421. 3. 1843. 453102656. 738731968. 5959486464. SM 23978721280. 8277065. З. 629309. 1026017. 33303780. ΑV MONTHLY SUMMARY (OCT) 400831. 11159649. 3252034. 1. Ο. MN 2. 704887. 801662. 30345800. 6504028. MX SM 16539260928. 4425136128. 1373. 235728528. 550341184. 316839. AV 22230190. 5947764. 2. 739706. MONTHLY SUMMARY (NOV) 9933108. 3252054. 1. ٥. 400831. MN 1004106. 801662. ΜX 30345800. 6503928. 2. 1208. 182398672. 484204064. 3914056960. SM 13110975488. 5436190. 672506. 18209688. AV MONTHLY SUMMARY (DEC) 8500417. 3252059. 400831. MN 25219452. 6503962. 2. 384035. 801662. 132967536. SM 11670292480. 3772397056. 1161. 465364960. 178720. 5070426. 625491. AV 15685877. 2. YEARLY SUMMARY 3252034. 400831. 7604153. 1. MN 60615512. 14523526. 4. 1021712. 1603325. MX 18491. SM 226770681856. 60125581312. 3718757376. 7411769344. 2. 424516. 846092. ΑV 25887064. 6863651.

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/13/1995 8: 8: 7

PA 19603 = HOURLY-REPORT

ENTECH ENGINEERING

PDL RUN 1

READING, PA 196

REP_3 = HOURLY-REPORT

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	. <b>.</b>	.=					¥	
MMDDHH .	STM-BOIL ER LOAD BTU/HR	STM-BOIL ER ELECTRIC USE BTU/HR	STM-BOIL ER FUEL USE BTU/HR	CTANK-ST ORAGE ENERGY RELEASED BTU/HR	CTANK-ST ORAGE ENERGY STORED BTU/HR	CTANK-ST ORAGE SIZES _ RUNNING	CTANK-ST ORAGE CAPACITY RUNNING BTU/HR	CTANK-ST ORAGE ENERGY AVAILABL BTU/HR
	( 1)	(3)	(4)	( 1)	( 4)	( 6)	(7)	( 8)
	( 1)	( 3)	( 4/	( 1)	( 4/	( 0,		• ( 0)
MONTHLY	SUMMARY (JAN)				•		_	
MN	7461002.	656568.	12680013.	0.	0		0.	0.
MX	110982520.	2468484.	144533040.	0.	0		0.	0.
SM	45908905984.	1787100160.	65255133184.	0.	0		0.	0.
AV	61705520.	2402016.	87708512.	0.	0	. 0.	0.	0.
MONTHLY	SUMMARY (FEB)							
MIN	3002731.	264240.	5103157.	0.	0		0.	0.
MX	112203808.	2468484.		0.	0		0.	0.
SM		1578008320.	52917821440.	0.	0		0.	0.
AV	54465328.	2348227.	78746760.	0.	0	. 0.	0.	0.
MONTHLY	SUMMARY (MAR)							
MN	1151241.		1956540.	0.		. 0.	0.	0.
MX	80398288.	2468484.	110284136.	0.	0		0.	0.
SM	28631027712.	1555896960.	43386642432.	0.	0		0.	0.
VA	38482564.	2091259.	58315380.	0.	0	. 0.	0.	0.
MONTHLY	SUMMARY (APR)							
MN	0.	0.	0.	0.	0		0.	0.
MX	68020232.	2468484.	95933952.	0.	0		0.	0.
SM	16374918144.		26082148352.	0.	0		0.	0.
AV	22742942.	1553100.	36225208.	0.	0	. 0.	0.	0.
	SUMMARY (MAY)							_
MN	0.	0.	0.	0.	0		0.	0.
MX	54236504.	2468484.	79622552.	0.	0		0.	0.
SM	6847094784.		11238974464.	0.	0		0.	0.
AV	9203084.	710103.	15106148.	0.	0	. 0.	0.	0.
	SUMMARY (JUN)						_	_
MIN	0.	0.	0.	0.	0		0.	0.
MX	17738562.	1560994.		0.	0		0.	0.
SM	812135552.	71467920.	1380228480.	0.	0		0.	0.
VA	1127966.	99261.	1916984.	0.	0	. 0.	0.	0.
	SUMMARY (JUL)							_
MN	0.	0.		0.	0		0.	0.
MX	11628714.	1023327.	19763060.	0.	0		0.	0.
SM	148630848.	13079516.	252598928.	0.	0		0.	0.
AV	199773.	17580.	339515.	. 0.	0	. 0.	0.	0.

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BLDG 49 EXISTING

READING,

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REP_1	<ul><li>HOURLY-REPOR</li></ul>	r	
PAGE 1-	1		

GLOBAL GLOBAL MMDDHH PLANT PLANT PLANT COOLING AMBIENT AMBIENT SYS COOL TOTAL COOLING LA PTR DRYBULB WETBULB LOAD BTU/HR BTU/HR ----(9) ----(15) -----(1) ----(2) ----(2) MONTHLY SUMMARY (APR) 24.000 0. 378. 28.0 MN ٥. 4110538. 3949290. 378. 83.0 66.000 ΜX 339681152. 272160. 37106.0 32228.000 295337856. SM AV 410191. 471779. 378. 51.5 44.761 MONTHLY SUMMARY (MAY) 378. 35.0 29.000 MN 0. 4888414. 5049663. 378. 87.0 69.000 SM 960951552. 1051734272. 281232. 45840.0 39784.000 61.6 53.473 1413621. 378. ΑV 1291602. MONTHLY SUMMARY (JUN) ٥. 52.0 47.000 MN 0. 365. 7653812. 78.000 MX 7492563. 391. 96.0 2284448512. 267792. 52340.0 46226.000 2169961984. SM 72.7 AV 3013836. MONTHLY SUMMARY (JUL) 602111. 365. 56.0 54.000 440863. MN 96.0 80.000 56668.0 51157.000 8057270. 7775137. 391. 3036282368. 278424. SM 2916313344. 4081025. AV 3919776. MONTHLY SUMMARY (AUG) 365. 53.0 53.000 MN ο. 7492351. 7653599. 391. 95.0 79.000 MX 55501.0 50408.000 SM 2625056512. 2744219392. 276552. 74.6 67.753 3688467. 372. ΑV 3528302. MONTHLY SUMMARY (SEP) MN 0. 0. 365. 46.0 43.000 6769916. 391. 94.0 6931164. 77.000 MX SM 1667496064. 1773436032. 269040. 49421.0 44029.000 ΑV 2315967. 2463106. 374. 68.6 61.151 MONTHLY SUMMARY (OCT) ο. 378. 32.0 30.000 4130478. 4291727. 82.0 67.000 378. MX 609093248. 281232. 42445.0 38210.000 542175168. SM AV 728730. 818674. 378. 57.0 51.358

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC

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PDL RUN 1 READING,

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		PLANT	PLANT	GLOBAL	GLOBAL	₹
	PLANT	PLANI	PLIANT	GLOBAL	GLOBALI	•
	SYS COOL LOAD BTU/HR	TOTAL COOLING BTU/HR	COOLING LA PTR	AMBIENT DRYBULB F	Ambient Wetbulb P	-
	(2)	( 9)	(15)	( 1)	( 2)	
MONTHL	Y SUMMARY (NOV)					
MN	0.	0.	391.	28.0	25.000	
MX	4789322.	4950570.	391.	82.0	73.000	· ·
SM	177776352.	197771168.	281520.	33256.0	29843.000	
AV	246912.	274682.	391.	46.2	41.449	
			:			
YEARLY	SUMMARY					
MIN	0.	0.	365.	28.0	24.000	
MX	8057270.	7775137.	391.	96.0	80.000	
SM	11355069440.	12036666368.	2207952.	372577.0	331885.000	
AV	1939049.	2055442.	377.	63.6	56.674	

READING,

PA 19603 = HOURLY-REPORT

PAGE	1-

PAGE 1-	1				
MMDDHH	- OPEN-CEN T-CHLR	OPEN-CEN T-CHLR	OPEN-CEN T-CHLR	CERAMIC- TWR	CERAMIC- TWR
	LOAD	BLECTRIC USE	SIZES RUNNING	Fan Elec	PUMP BLBC
	BTU/HR	BTU/HR		BTU/HR	BTU/HR
	( 1)	(3)	( 6)	(20)	(21)

MONTHI Y	SUMMARY (APR)				
MN	0.	0.	0.	0.	0.
MX	4110538.	894287.	1.	104225.	217117.
SM	339681152.	122080104.	275.	7331106.	. 59707152.
AV	471779.	169556.	0.	10182.	82927.
MONTHLY	SUMMARY (MAY)		*		
MIN	0.	0.	0.	0.	0.
MX	5049663.	1067862.	1.	144167.	217117.

SM	1051734272.	312835776	563.	29762394.	122236856.
AV	1413621.	420478.	1.	40003.	164297.
MONTHLY MN MX SM AV	SUMMARY (JUN) 0. 7653812. 2284448512. 3172845.	0. 1871513. 566244160. 786450.	0. 1. 710. 1.	0. 144167. 67460800. 93696.	0. 217117. 154153040. 214101.

MONTHLY	SUMMARY (JUL)				
MN	602111.	352811.	1.	0.	217117.
MX	7775137.	1985564.	1.	144167.	217117.
SM	3036282368.	708660672.	744.	90573768.	161534992.
ΔV	4081025	952501.	1.	121739.	217117.

MONTHLY	SUMMARY	(AUG)			_	_
MN		0.	0.	Ο.	0.	0.
MX	7653	599.	1903940.	1.	144167.	217117.
SM	2744219	392.	652442560.	739.	84350000.	160449408.
AV	3688	3467.	876939.	1.	113374.	215658.

MN	0.	0.	0.	0.	0.
MX	6931164.	1612259.	1.	144167.	217117.
SM	1773436032.	457501056.	657.	53782748.	142645840.
AV	2463106.	635418.	1.	74698.	198119.

MONTHLY	SUMMARY	(OCT)				
MN		٥.	0.	٥.	٥.	0.
MX	4291	727.	926081.	1.	133522.	217117.
SM	609093	248.	202599312.	415.	16176753.	90103528.
AV	818	674.	272311.	1.	21743.	121107.

ENGINEERING

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 5/16/1995 16:19:27

PDL RUN 1

READING, PA 19603
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MIC-
•
:
HR
(21)
0.
17117.
22498.
37392.
0.
17117.
53280.
56720.

Bilden Wr

rea rep_1	= HOUR	ERING 19603 LY-REPORT			WARE DEVELOPMENT INC	DOE-2.1D 5/16/1995 11:	:53:59 PDL RUN 1 PAGE 1- 1
MMDDHH	PLANT		PLANT	GLOBAL	GLOBAL		
	SYS COOL LOAD BTU/HR	TOTAL COOLING BTU/HR	COOLING LA PTR	DRYBULB	WETBULB	<u>.</u>	BLOG 54 EXISTING
	(2)	(9)	(15)	( 1)	( 2)	•	EXISTING
Monthly Min Mix Sim Av	SUMMARY (APR) 0. 6678577. 569309184. 790707.	0. 6056815. 666091520. 925127.	378. 378. 272160. 378.	28.0 83.0 37106.0 51.5	24.000 66.000 32228.000 44.761	e e e e e e e e e e e e e e e e e e e	
MIN MIX SIM	SUMMARY (MAY) 0. 8627119. 1806623744. 2428258.	28802000. 1990971008.	378. 378. 281232. 378.	35.0 87.0 45840.0 61.6	29.000 69.000 39784.000 53.473		
MN MX SM AV	4461458.	3433159936. 4768278.	267792. 372.	52340.0 72.7	64.203		
Monthly Min Mix Sim Av	SUMMARY (JUL) 5387. 15352476. 3741261568. 5028578.	312632. 97511728. 3969853184. 5335824.	365. 391. 278424. 374.	56.0 96.0 56668.0 76.2	54.000 80.000 51157.000 68.759		
MONTHLY MN MX SM AV	SUMMARY (AUG) 2678. 13563697. 3941834752. 5298165.	309923. 78027232. 4170426112.	365. 391. 276552. 372.	53.0 95.0 55501.0 74.6	53.000 79.000 50408.000 67.753	•	
MN MX SM AV	3265442.	0. 31635978. 2562195712. 3558605.	269040. 374.	68.6	43.000 77.000 44029.000 61.151		
SM	SUMMARY (OCT) 0. 7297984. 1160435712. 1559725.	0. 5965099. 1314673024. 1767034.	281232.	32.0 82.0 42445.0 57.0	30.000 67.000 38210.000 51.358		

REP_1 		RLY-REPORT 	PLANT	GLOBAL	GLOBAL			PAGE 2- 1
	SYS COOL LOAD BTU/HR	TOTAL COOLING BTU/HR	COOLING LA PTR	AMBIENT DRYBULB F	Ambient Wetbulb F		,	
	·( 2)	( 9)	(15)	( 1)	( 2)	•	· ·	
MN		0. 78542768. 596054272. 827853.	391. 281520.	82.0	29843.000	-	t <u>e</u> f	
MN	17327577088.	0. 97511728. 18703425536. 3193891.	391. 2207952.	96.0	331885.000			

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REA	ENTECH ENGIN ADING, PA = HOU	19603	EZDOE	- ELITE SOFTW	ARE DEVELOPMENT INC	DOE-2.1D	5/16/1995	11:53:59 PDL RUN 1 PAGE 1- 1
	ODEN CEN	ODEN-CEN	OPENI_CEN	CERAMIC- TWR FAN ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR	·	·	
				(20)		•		
MONTHLY MN MX SM AV	SUMMARY (APR) 0. 5447115. 665413248. 924185.	0. 1183855. 362954784. 504104.	0. 1. 315. 0.	0. 132139. 5313931. 7380.	0. 145299. 45769104. 63568.	-		
MONTHLY MN MX SM AV	SUMMARY (MAY) 0. 5500079. 1906119424. 2561989.	0. 1183805. 694871872. 933968.	0. 1. 600. 1.	0. 193618. 31524016. 42371.	0. 145299. 87179232. 117176.			
MONTHLY MN MX SM AV	SUMMARY (JUN) 0. 13711695. 3300562944. 4584115.	0. 3921470. 2005208576. 2785012.	0. 3. 1773. 2.	0. 266700. 116658864. 162026.	0. 435896. 257614560. 357798.			
	SUMMARY (JUL) 312632. 15617988. 3773556480. 5071985.							
MONTHLY MN MX SM	SUMMARY (AUG) 309923. 13870943. 3842631936. 5164828.	703423. 3972099. 2104744320.	1. 3. 1848.	0. 266700. 145569088.	145299. 435896. 268511968.			
MONTHLY MN MX SM AV	SUMMARY (SEP) 0. 10656592. 2528696064. 3512078.	0. 3792781. 1796103168. 2494588.	0. 3. 1613. 2.	0. 266700. 93943840. 130478.	0. 435896. 234366800. 325509.			
MONTHLY MN MX SM AV	SUMMARY (OCT) 0. 5481423. 1314011904. 1766145.	0. 1183834. 579340032. 778683.	0. 1. 502. 1.	0. 178071. 18693754. 25126.	0. 145299. 72939960. 98038.			

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RE/ REP_2		ERING 19603 LY-REPORT	EZDOE	- ELITE SOFTW	ARE DEVELOPMENT INC	DOE-2.1D	5/16/1995	11:53:59 PDL PAGE	RUN 1
	OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR FAN ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR				
	·( 1)	(3)	(6)	(20)	(21)				
MONTHLY MN MX SM AV	Y SUMMARY (NOV) 0. 5500079. 459173568. 637741.		1. 167.	0. 243631. 9159945. 12722.	0. 145299. 24264888. 33701.	-	٠.		
YEARLY MN MX SM AV	SUMMARY 0. 15617988. 17790164992. 3037938.	0. 4042675. 9701660672. 1656704.	3. 8522.	0. 266700. 559967104. 95623.	0. 435896. 1238235392. 211447.				

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ENTECH ENGINEERING
RUN 1
READING, PA
REP_1 = HOURL
PAGE 1- 1

PA 19603 = HOURLY-REPORT

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MMDDHH	PLANT	PLANT	PLANT	GLOBAL	GLOBAL
	SYS COOL	TOTAL	COOLING	AMBIENT	AMBIENT
	LOAD	COOLING	LA PTR	DRYBULB	WETBULB
	BTU/HR	BTU/HR		F	P
	( 2)	( 9)	(15)	( 1)	( 2)
MONTHLY	SUMMARY (JAN)				
MN	3507775.	4347606.	381.	6.0	4.000
MX	5432509.	6272340.	381.	59.0	56.000
SM	2670228736.	3295062272.	283464.	22956.0	20501.000
AV	3589017.	4428847.	381.	30.9	27.555
MONTHLY	SUMMARY (FEB)		:		
MN	3507647.	4347478.	381.	6.0	4.000
MX	6370432.	7210263.	381.	62.0	56.000
SM	2449467648.	3013833984.	256032.	23273.0	21225.000
AV	3645041.	4484872.	381.	34.6	31.585
MONTHI.V	SUMMARY (MAR)				
MN		4340239.	381.	22.0	18.000
MX	12513527.	13353358.	381.	75.0	62,000
	2965171456.	3590005504.		31630.0	27192,000
AV	3985446.	4825276.	381.	42.5	36.548
MONTHIT.V	SUMMARY (APR)				
MN	3523148.	4362979.	381.	28.0	24.000
MX	13320814.	14160645.		83.0	66.000
	3555087104.	4159764992.	274320.	37106.0	32228.000
AV	4937621.	5777452.	381.	51.5	44.761
MONTHLY	SUMMARY (MAY)				
MN	3505828.	4345659.	381.	35.0	29.000
MX	21371302.	22211132.	381.	87.0	69.000
SM	5595591168.	6220425216.	283464.	45840.0	39784.000
AV	7520956.	8360787.	381.	61.6	53.473
MONTHLY	SUMMARY (JUN)				
MN	3277467.	4117297.	394.	52.0	47.000
MX	38736448.	37207440.	394.	96.0	78.000
SM	9318824960.	9923502080.	283680.	52340.0	46226.000
AV	12942812.	13782642.	394.	72.7	64.203
MONTHLY	SUMMARY (JUL)				
MN	3184950.	4024781.	394.	56.0	54.000
MX	41964740.	36485172.	394.	96.0	80.000
SM	12194013184.	12818844672.	293136.	56668.0	
AV	16389803.	17229630.	394.	76.2	68.759

ALT # 9 Two CHILLED WATER PLANTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 5/19/1995 14:23:40

ENTECH ENGINEERING
PDL RUN 1
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	_				
	PLANT	PLANT	PLANT	GLOBAL	GLOBAL
	SYS COOL	TOTAL	COOLING	AMBIENT	AMBIENT
	LOAD	COOLING	LA PTR	DRYBULB	WETBULB
	BTU/HR	BTU/HR		F	P
	BIU/AR	BIO/IIK		•	•
	( 2)	(9)	(15)	( 1)	( 2)
MONTHLY	SUMMARY (AUG)				
MN	4067420.				53.000
MX	39645848.	36878116.		95.0	
SM	11267466240.	11892299776.	293136.	55501.0	50408.000
AV	15144444.	15984274.	394.	74.6	67.753
MONTHLY	SUMMARY (SEP)				
MN	3613491.	4453322.	394.	46.0	43.000
MX	33231828.	34071660.	394.		
SM	7730153472.	8334830592.	283680.	49421.0	44029.000
AV	10736324.	11576154.	394.	68.6	61.151
	SUMMARY (OCT)				
MN	3178808.	4018639.	394.		
MX	16213375.	17053206.	394.	82.0	67.000
SM	4628574208.	5253408256.	293136.		
AV	6221202.	7061033.	394.	57.0	51.358
MONTH!!	SUMMARY (NOV)				
MONTHLY	SUMMARI (NOV)	4241045	381.	28.0	25.000
	3501214.	26556284.	381.		
MX	25716454. 3454401024.				
		5637611.	381.	46.2	
AV	4797779.	563/611.	381.	46.2	41.447
MONTHLY	SUMMARY (DEC)				
MN	3494966.	4334797.	381.	15.0	13.000
MX	6649398.	7489228.			58.000
		3304257536.			
AV	3601375.	4441207.	381.	35.1	
AV	. 3001373.		502.		
YEARLY	SUMMARY				
MIN	3178808.	4018639.	381.		
MX	41964740.	37207440.	394.	96.0	
SM	68508405760.	75865317376.	3385296.	476532.0	424283.000
AV	7820595.	8660424.	386.	54.4	48.434

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FAGS 1-	-				
	OPEN-CEN	OPEN-CEN	OPEN-CEN	CERAMIC-	CERAMIC-
MMDDHH	T-CHLR	T-CHLR	T-CHLR	TWR	TWR
	I-CHLK LOAD	BLECTRIC	SIZES	FAN	PUMP
	LOAD	USE	RUNNING	ELEC	BLEC
			RUMMING	BTU/HR	BTU/HR
	BTU/HR	BTU/HR		BIU/AR	BIU/RK
	( 1)	( 3)	( 6)	(20)	(21)
MONTHLY	SUMMARY (JAN)				
MN	4347606.	1480135.	3.	0.	601247.
MX	6272340.	1609680.	3.	132334.	601247.
SM	3295062272.	1105138816.	2232.	2569547.	447327584.
AV	4428847.	1485402.		3454.	601247.
WONTHT.V	SUMMARY (FEB)		*		
MN	4347478.	1480127.	3.	0.	601247.
MX	7210263.	1677913.		148251.	601247.
SM	3013833984.	1000712320.		3200026.	404037824.
AV	4484872.	1489155.		4762.	601247.
Α,	44040723				
MONTHLY	SUMMARY (MAR)				
MIN	4340239.	1479666.	3.	0.	
MX	13353358.	2206812.	3.	249271.	601247.
SM	3590005504.	1126042624.	2232.	15681849.	447327584.
AV	4825276.	1513498.	3.	21078.	601247.
MONTHI.V	SUMMARY (APR)				
MN	4362979	1481114.	3.	0.	601247.
MX	14160645.	2286817.		294167.	601247.
	4159764992.			45076252.	432897664.
AV	5777452.	1582772.		62606.	601247.
	SUMMARY (MAY)				
MONTHLY	4345659.	1480011.	3.	0.	601247.
MIN MIX	22211132.	3216442.		455913.	601247.
M.X. SM	6220425216.	1331934080.			447327584.
AV	8360787.	1790234.		155646.	601247.
AV	6360767.	1750234.	٠.	2220.01	
MONTHLY	SUMMARY (JUN)				
MN	4117297.	1465581.	3.	0.	601247.
MX	37207440.	6210795.	3.	455913.	601247.
SM	9923502080.	1731901184.	2160.	213461584.	432897664.
AV	13782642.	2405418.	3.	296474.	601247.
MONTHI.Y	SUMMARY (JUL)				
MN		1459791.	3.	0.	601247.
MX	36485172.	6239734.		455913.	601247.
SM	••••	2141067136.		273153824.	447327584.
AV	17229630.	2877779.	3.	367142.	601247.
	1,10,000				

5637611.

4334797. 7489228. 3304257536.

4441207.

8660424.

4018639. 1459408. 37207440. 6239734. 75865317376. 16615190528.

MONTHLY SUMMARY (DEC)

ΑV

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SM

AV

MN

SM AV

YEARLY SUMMARY

1479320. 1698851. 1105816192.

1486312.

1896711.

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PA 19603

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- HOURLY-REPORT

						<b>3</b> 5
	OPEN-CEN	OPEN-CEN	OPEN-CEN	CERAMIC-	CERAMIC-	***
	· T-CHLR	T-CHLR	T-CHLR	TWR	TWR	. ;
	LOAD	ELECTRIC	SIZES	Fan	PUMP	<u> </u>
		USE	RUNNING	ELEC	ELEC	
	BTU/HR	BTU/HR		BTU/HR	BTU/HR	•
	( 1)	(3)	( 6)	(20)	(21)	. 44
MONTHLY	SUMMARY (AUG)					
MIN	4907251.			0.	601247.	
MX	36878116.	6226589.	3.		601247.	
SM	11892299776.	1989687936.	2232.	263225968.	447327584.	
AV	15984274.	2674312.	3.	353798.	601247.	
			r			
MONTHLY	SUMMARY (SEP)					
MN	4453322.	1486884.	3.	0.	601247.	
MX	34071660.	5636418.	3.			
SM	8334830592.	1546748800.	. 2160.	181656592.	432897664.	
AV	11576154.	2148262.	3.	252301.	601247.	
MONTHLY	SUMMARY (OCT)					
MN	4018639.			0.	601247.	
MX	17053206.	2593339.		321645.		
SM	5253408256.	1252063360.		83250632.		
AV	7061033.	1682881.	3.	111896.	601247.	
MONTHLY	SUMMARY (NOV)					x.
MN	4341045.	1479718.		0.	601247.	
MX	26556284.	3960663.		455913.	601247.	
SM	4059079424.	1144481408.	2160.	33230780.	432897664.	

46154.

164152.

2670672.

3. 0. 3. 455913. 26280. 1232978560.

3590.

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RUN 1 READING,

REP_1			■ HOURLY-REPORT
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	•			a	GT ODAT
MMDDHH	PLANT	PLANT	PLANT	GLOBAL	GLOBAL
		mom> *	COOLING	AMBIENT	AMBIENT
	SYS COOL	TOTAL			WETBULB
	LOAD	COOLING	LA PTR	DRYBULB	MPIDOTE
	BTU/HR	BTU/HR		F .	F
	(2)	( 9)	(15)	( 1)	( 2)
MONTHLY	SUMMARY (JAN)				
MN	3400712.	5516383.	381.	6.0	4.000
MX	19250290.	21365960.	381.	59.0	56.000
SM	8302339584.	9876399104.	283464.	22956.0	20501.000
AV	11159059.	13274730.	381.	30.9	27.555
MONTHLY	SUMMARY (FEB)		,		
MN	3475400.	5591071.	381.	6.0	4.000
MX	19355176.	21470848.	381.	62.0	56.000
SM	7937025024.	9358756864.	256032.	23273.0	21225.000
AV	11811049.	13926722.	381.	34.6	31.585
MONTHT.Y	SUMMARY (MAR)				
MN	5138767.	7254438.	381.	22.0	18.000
MX	34979532.	37095204.	381.	75.0	62.000
SM	10065806336.	11639865344.	283464.	31630.0	27192.000
AV	13529310.	15644980.	381.	42.5	36.548
MONTHLY	SUMMARY (APR)				
MN	5642416.	7758087.	381.	28.0	24.000
MX	41204364.	40847376.	381.	83.0	66.000
SM	11337044992.	12860327936.	274320.	37106.0	32228.000
AV	15745896.	17861566.	381.	51.5	44.761
момтит.у	SUMMARY (MAY)	-			
MN	7032226.	9147897.	381.	35.0	29.000
MX	59679624.	139942272.	381.	87.0	69.000
SM	17162206208.	18736265216.	283464.	45840.0	39784.000
AV	23067482.	25183152.	381.	61.6	53.473
MONTHI.Y	SUMMARY (JUN)				
MN	10106761.	12222432.	394.	52.0	47.000
MX	96554752.	281237536.	394.	96.0	78.000
SM	29989515264.	31512801280.	283680.	52340.0	46226.000
AV	41652104.	43767780.	394.	72.7	64.203
MONTHLY	SUMMARY (JUL)				
MN	11596712.	13712383.	394.	56.0	54.000
MX	105716048.	766521536.	394.	96.0	80.000
SM	40491446272.	42065510400.	293136.	56668.0	51157.000
AV	54423988.	56539664.	394.	76.2	68.759

ENTECH ENGINEERING

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

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PDL RUN 1
READING,
REP_1
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PA 19603 = HOURLY-REPORT

	•				
	PLANT	PLANT	PLANT	GLOBAL	GLOBAL
	•				
	SYS COOL	TOTAL	COOLING	AMBIENT	AMBIENT
	LOAD	COOLING	LA PTR	DRYBULB	WETBULB
	BTU/HR	BTU/HR		F	F
	(2)	(9)	(15)	( 1)	(2)
MONTHLY	SUMMARY (AUG)				
MN	10301202.	12416873.			
MX	99612848.	388685376.	394.	95.0	79.000
SM	37763403776.	39337463808.	293136.	55501.0	50408.000
AV	50757264.	52872936.	394.	74.6	67.753
MONTHLY	SUMMARY (SEP)				
· MIN	8755230.	10870901.	394.	46.0	
MX		142692096.			
SM	25039167488.	26562451456	283680.	49421.0	44029.000
AV	34776620.	36892292.		68.6	61.151
	••••				
MONTHLY	SUMMARY (OCT)				
MN	6873616.	8989286.	394.	32.0	30.000
MX	44451864.	46567536.	394.	82.0	67.000
SM	13888132096.	15462192128.	293136.	42445.0	38210.000
AV	18666844.	20782516.	394.	57.0	51.358
MONTHLY	SUMMARY (NOV)				
MN	5650005.	7765676.	381.	28.0	25.000
MX	71053224.	220422600	381	82 0	73.000
	11193221120.		274320.	33256.0	29843.000
AV	15546140.	17661810.	381.	46.2	41.449
MONTHLY	SUMMARY (DEC)				
MN	4272394.	6388065.	381.	15.0	13.000
MX	20006276.	22121948.	381.	62.0	
SM	8463778304.	22121948. 10037837824.	283464.	26096.0	23480.000
AV	11376046.		381.	35.1	31.559
YEARLY	SUMMARY				
MN	3400712.	5516383.	381.		4.000
MX	105716048.	766521536.			
SM	221633085440.	240166371328.			424283.000
AV	25300580.	27416252.	386.	54.4	48.434

ENTECH ENGINEERING
PDL RUN 1
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REP_2
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=	HOURLY-REPORT
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FAGE I-	. <b></b>				
	•				CWD 1117
MMDDHH	OBEN-CEN	OPEN-CEN	OPEN-CEN	CERAMIC-	CERAMIC-
	T-CHLR	T-CHLR	T-CHLR	TWR	TWR
	LOAD	BLECTRIC	SIZES	FAN	PUMP
		USB	RUNNING	BLEC	BLEC
	BTU/HR	BTU/HR		BTU/HR	BTU/HR
	( 1)	( 3)	(6)	(20)	(21)
MONTHLY	SUMMARY (JAN)				
MN	5516383.	1681415.	3.	0.	661371.
MX	21365960.	3192000.	3.	285297.	661371.
SM	9876399104.	1741297024.	2232.	568869.	492060032.
AV	13274730.	2340453.	3.	765.	661371.
MONTHLY	SUMMARY (FEB)		•		
MN	5591071.	1686458.	3.	0.	661371.
MX	21470848.	3204923.	3.	286141.	661371.
SM	9358756864.	1615300736.	. 2016.	2221723.	444441344.
AV	13926722.	2403721.	3.	3306.	661371.
MONTHLY	SUMMARY (MAR)				
MN	7254438.	1803905.	3.	0.	661371.
MX	37095204.	5554443.	3.	369393.	661371.
SM	11639865344.	1919612416.		10715844.	492060032.
AV	15644980.	2580124.	3.	14403.	661371.
MONTHLY	SUMMARY (APR)		*		
MN	7758087.	1841399.	3.	0.	661371.
MX	40847376.	6233166.	3.	717026.	661371.
SM	12860327936.	2049474048.	2160.	50370320.	476187136
AV	17861566.	2846492.	3.	69959.	661371.
MONTHLY	SUMMARY (MAY)				
MN	9147897.	1949512.	3.	0.	661371
MX	41727792.	6261760.	3.	876359.	661371
SM	18487078912.	2830342400.	2232.	181202896.	492060032.
AV	24848224.	3804224.	3.	243552.	661371
MONTHLY	SUMMARY (JUN)			-	
MN	12222432.	3009299.	5.	0.	1102286
MX	69262328.	11312143.	5.	876359.	1102286
SM	30739935232.	4820252672.	3600.	435093568.	793645632
AV	42694356.	6694796.	5.	604297.	1102286
MONTHLY	SUMMARY (JUL)				
MN	13712383.	3120561.	5.	0.	1102286
MX	69262448.	11383367.	5.	876359.	1102286
SM	39435214848.	6185359872.	3720.	561912128.	820100480
AV	53004320.	8313656.	5.	755258.	1102286

DOE-2.1D 5/19/1995 14:25:49

PDL RUN 1

READING,

PA 19603

REP_2 = HOURLY-REPORT PAGE 2- 1

CERAMIC-CERAMIC-OPEN-CEN OPEN-CEN OPEN-CEN T-CHLR TWR TWR T-CHLR T-CHLR BLECTRIC SIZES FAN PUMP LOAD RLEC RUEC USE RUNNING BTU/HR BTU/HR BTU/HR BTU/HR ----(3) ----(6) ---- (20) ----(21) ----( 1) MONTHLY SUMMARY (AUG) 3023555. Ο. 1102286. 5. MN 12416873. 5. 876359. 1102286. 11349091. 69181008. MX 5866179584. 3720. 544066560. 820100480. 37698646016. SM AV 50670224. 7884650. 5. 731272. 1102286. MONTHLY SUMMARY (SEP) 10870901. 2912394. 5. 0. 1102286. MN 876359. 69150632. 11268938. 5. 1102286. ΜX 3600. 368434752. 793645632. SM 26385356800. 4260735744. 1102286. 511715. 5917689. 5. ΑV 36646328. MONTHLY SUMMARY (OCT) 1102286. 8989286. 2783865. 5. 0. 855242. 1102286. MX 46567536. 6739092. 5. 2822410240. 3720. 192223760. 820100480. SM 15462192128. 5. 258365. 1102286. 20782516. ΑV MONTHLY SUMMARY (NOV) 661371. 7765676. MN 876359. 661371. 41728068. 6449202. 3. 2160. 53273184. 476187136. SM 12144153600. 1997365376. 661371. 2774119. 3. 16866880. AV MONTHLY SUMMARY (DEC) З. 661371. 1741509. MN 6388065. 3286003. 3. 299667. 661371. 22121948. MX 10037837824. 1755442944. 2232. 1688636. 492060032. 661371. 2270. ΑV 13491718. 2359466. 3. YEARLY SUMMARY 5516383. 1681415. 3. 5. 661371. 876359. 1102286. 11383367. MX 69262448. SM 234125754368. 37863776256. 33624. 2401772032. 7412648960. 26726684. 4322349. 4. 274175. 846193.

Single plant

REA	ENTECH DING.		RING 19603	EZDOE -	ELITE SOFT	ware development	INC	DOE-2.1D	5/19/1995	10:59:25	PDL RUN 1	
REP_1		= HOURL	Y-REPORT							P	AGE 1- 1	
MMDDHH	PLANT		PLANT	PLANT	GLOBAL	GLOBAL						
	SYS COO LOAD BTU/HR	L	TOTAL COOLING BTU/HR	COOLING LA PTR	AMBIENT DRYBULB F	AMBIENT WETBULB F			Ę		AT	#5
	( 2	)	(9)	(15)	( 1)	(2)					NU	
MONTHLY MN MX SM AV	SUMMARY 6922 22803 10972567 14748	767. 122. 552. :	9878268. 25758624. 13171461120. 17703576.	381. 381. 283464. 381.	6.0 59.0 22956.0 30.9	4.000 56.000 20501.000 27.555		-		4	SINGL	E CHILLED PLANT
MN MX	SUMMARY 7043 25276 10386491 15456	391. 454. 392. :	9998892. 28231956. 12372588544. 18411590.	381. 381. 256032. 381.	6.0 62.0 23273.0 34.6	4.000 56.000 21225.000 31.585						
MN MX	SUMMARY 86942 474076 130309775 17514	288. 604. 536. 1	11649790. 50363100. 15229872128. 20470258.	381. 381. 283464. 381.	22.0 75.0 31630.0 42.5	18.000 62.000 27192.000 36.548						
MN MX	SUMMARY 92033 507188 148921333 206835	336. 896. 376. 1	12158838. 53674396. 17020091392. 23639016.	381. 381. 274320. 381.	28.0 83.0 37106.0 51.5	24.000 66.000 32228.000 44.761						
MN MX	SUMMARY 106112 800596 227577999 305884	268. 648. 936. 2	13566770. 64333400. 24956692480. 33543942.	381. 381. 283464. 381.	35.0 87.0 45840.0 61.6	29.000 69.000 39784.000 53.473						
MIN MIX	SUMMARY ( 138461 1352912 393083371 545949	157. 200. 152. 4	16801658. 206163824. 41436303360. 57550420.	394. 394. 283680. 394.	52.0 96.0 52340.0 72.7	47.000 78.000 46226.000 64.203						
MN MX	SUMMARY ( 164132 1476807 526854635 708137	208. 784. 552. 5	19368710. 785687232. 54884356096. 73769296.	394. 394. 293136. 394.	56.0 96.0 56668.0 76.2	54.000 80.000 51157.000 68.759						

וקם	ENTECH ENGIN	JEERING 19603	EZDOE -	- ELITE SOF	TWARE DEVELOPMENT INC	DOE-2.1D	5/19/1995	10:59:25 PDL	RUN 1
REP_1	= HOU	RLY-REPORT						PAGE	2- 1
	PLANT	PLANT	PLANT	GLOBAL	GLOBAL				
	SYS COOL	TOTAL	COOLING		AMBIENT				
	LOAD BTU/HR	COOLING BTU/HR	LA PTR	DRYBULB F	WETBULB F		<b>F</b>		
	( 2)	(9)	(15)	( 1)	( 2)				
MONTHLY	Y SUMMARY (AUG)					-			
MN	14582248.	17537750.	394.	53.0					
MX	139258688.	352743776.	394.	95.0	79.000				
SM	49030868992.		293136.	55501.0	79.000 50408.000 67.753				
AV	65901704.	68857224.	394.	74.6	67.753			•.	
MONTHLY	SUMMARY (SEP)								
MN	12473321.	15428822.	394. 394.	46.0					
MX	119924320.	105291320.	394.	94.0	77.000				
SM	32769320960.				44029.000				
AV	45512944.	48468452.	394.	68.6	61.151				
MONTHLY	SUMMARY (OCT)								
MN	10453994.	13409496.	394.	32.0	30.000				
MX	59252696.		394.	82.0	67.000				
SM	18516703232.	20715595776.	293136.	42445.0	38210.000				
AV	24888042.	27843542.	394.	57.0	51.358				
MONTHLY	SUMMARY (NOV)								
MN	9228663.	12184166.	381.	28.0	25.000				
Mĸ	96724720.	12184166. 287669376.	381.	82.0	73.000				
SM	14647620608.		274320.	33256.0	29843.000				
AV	20343918.		381.	46.2	41.449				
MONTHE, V	SUMMARY (DEC)								
MN	7810157.		381.	15.0	13.000				
MX	26585578.		381.	62.0	58.000				
	11143200768.		283464.		23480.000				
AV			381.	35.1	31.559				
YEARLY	SUMMARY								
MN	6922767	9878268.	381.	6.0	4.000				
MX	147680784.	785687232.	394.	96.0	80.000				
		316031664128.			424283.000				
		36076672.			48.434				

REA	= HOU	RLY-REPORT			ARE DEVELOPMENT INC	DOE-2.1D	5/19/1995	10:59:25 P	PDL AGE	RUN 1 1- 1
MMDDHH	OPEN-CEN T-CHLR	OPEN-CEN T-CHLR ELECTRIC	OPEN-CEN T-CHLR SIZES		CERAMIC- TWR PUMP ELEC					
	BTU/HR	USE BTU/HR	RUNNING	BTU/HR	BTU/HR		₹ .			
	(1)	(3)	(6)	(20)	(21)	•				
MONTHLY MN MX SM AV	SUMMARY (JAN) 9878268. 25758624. 13171461120. 17703576.	2690966. 4095780. 2478372864. 3331146.	3. 3. 2232. 3.	0. 382448. 108702336. 146105.	1022120. 1022120. 760457216. 1022120.	-		·.		
MONTHLY MN MX SM AV	SUMMARY (FEB) 9998892. 28231956. 12372588544. 18411590.	2699473. 4365949. 2281752832. 3395466.	3. 3. 2016. 3.	0. 396547. 113381760. 168723.	1022120. 1022120. 686864576. 1022120.					
MONTHLY MN MX SM AV	SUMMARY (MAR) 11649790. 50363100. 15229872128. 20470258.	2819251. 7392417. 2675034880. 3595477.	3. 3. 2232. 3.	0. 632600. 162455264. 218354.	1022120. 1022120. 760457216. 1022120.					
MONTHLY MN MX SM AV	SUMMARY (APR) 12158838. 53674396. 17020091392. 23639016.	2857440. 7938756. 2839074560. 3943159.	3. 2160. 3.	0. 998647. 202715792. 281550.	1022120. 1022120. 735926336. 1022120.					
MONTHLY MN MX SM AV	SUMMARY (MAY) 13566770. 64333400. 24956692480. 33543942.	2966142. 9898878. 3879078400. 5213815.	3. 3. 2232. 3.	0. 1114521. 348553184. 468485.	1022120. 1022120. 760457216. 1022120.					
	SUMMARY (JUN) 16801658. 105579776. 41178693632. 57192632.									
MONTHLY MN MX SM	SUMMARY (JUL) 19368710. 104553120. 53149376512. 71437336.	4683051. 17733452. 8580954112.	5. 5. 3720.	459963. 1114521. 742694976.	1703533. 1703533. 1267428096.					

		EERING 19603	EZDOE	- ELITE SOFT	NARE DEVELOPMENT	INC	DOE-2.1D	5/19/1995	10:59:25	PDL	RUN 1
REP_2	DING, PA = HOU	RLY-REPORT								PAGE	2- 1
	OPEN-CEN T-CHLR LOAD	OPEN-CEN T-CHLR ELECTRIC	T-CHLR	CERAMIC- TWR FAN	CERAMIC- TWR PUMP						
		USE BTU/HR	RUNNING	ELEC BTU/HR	ELEC BTU/HR			¥			
	( 1)	(3)	( 6)	(20)	(21)						
MONTHLY	SUMMARY (AUG)						-				
MN	17537750. 104646168. 50623107072.	4550599.	5.	445071.	1703533.						
MX	104646168.	17714352.	5.	1114521.	1703533.						
SM AV	50623107072. 68041808.	10890259.	5.	974737.	1703532.						
MONTHLY	SUMMARY (SEP)										
MN	15428822. 105291320. 34897285120.	4403656.	5.	427027.	1703533.						
MX	105291320.	17654272.	5.	1114521.	1703533.						
SM AV	34897285120. 48468452.	5843448320. 8115901.	3600. 5.	549373696. 763019.	1226543360. 1703533.						
MONTHLY	SUMMARY (OCT)										
MN	13409496.	4268602.	5.	408807.	1703533.						
MX	62208196.	9059091.	5.	1114521.	1703533.						
SM AV	13409496. 62208196. 20715595776. 27843542.	4050152192. 5443753.	3720. 5.	397904640. 534818.	1267428096. 1703532.						
MN	12184166.	2859355.	3.	0.	1022120.						
MA	64484824.	10157030.	3.	1114521.	1022126.						
SM AV	16415405056. 22799174.	2844613376. 3950852.	2160. 3.	263269.	1022120. 1022120. 735926336. 1022120.						
MONTHI.Y	STIMMARY (DEC)										
MN	10765658. 29541078.	2754330.	3.	0.	1022120.						
MX	29541078.	4514518.	3.	409149.	1022120.						
SM AV	13342093312. 17932922.	3350703.	2232. 3.	159985.	1022120.						
YEARLY S	SUMMARY										
MN	9878268. 105579776.	2690966.	3.	0.	1022120.						
MX	105579776.	17733452.	5.	1114521.	1703533.						
	313072222208.			4269836544. 487424.	11455917056. 1307753.						
AV	35738840.	6019913.	. 4.	48/424.	1307753.						

ENTECH ENGINEERING
READING, PA 19603
# HOURLY-REPORT REP_3 STM-BOIL ER FUEL CTANK-ST ORAGE ENERGY CTANK-ST ORAGE ENERGY CTANK-ST ORAGE SIZES CTANK-ST ORAGE CAPACITY CTANK-ST ORAGE ENERGY MMDDHH STM-BOIL STM-BOIL ER ELECTRIC LOAD RUNNING USE BTU/HR STORED BTU/HR USE RELEASED RUNNING AVAILABL BTU/HR BTU/HR BTU/HR 🚁 BTU/HR ----( 7) .---(8) ----(3) ---(4) ---(1) ----(4) ---- ( 6) ----(1) MONTHLY SUMMARY (JAN) MN 7781551. MX 109598496. SM 45429723136. 684776. 2461150. 1781912320. 2395044. 13224786. 142951632. 64664276992. 86914352. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. AV 61061456. MONTHLY SUMMARY (FEB)
MN 2999430.
MX 111870432.
SM 36203253760.
AV 53873888. 0. 0. 0. 263950. 2461150. 1573002240. 2340777. 0. 0. 0. 5097547. 0. 0. 0. 145431552. 52422246400. 78009296. ΑV MONTHLY SUMMARY (MAR) MN 1147940. MX 78964384. SM 28332677120. 0. 0. MIN MX SM AV 101019. 0. 0. 0. 0. 0. 0. 2461150. 1551163264. 2084897. 108583320. 43002388480. 57798908. 38081556. MONTHLY SUMMARY (APR) 0. 0. 0. 0. 0. 0. 94417736. MN ٥. 0. 66767344. 16212275200. 22517048. 2461150. 1114417920. 1547803. MX SM AV ٥. 25863563264. 35921616. MONTHLY SUMMARY (MAY) 0. 0. 2461150. 78296448. 527435072. 11180479488. 708918. 15027526. 0. 0. 0. 0. 0. 0. 0. 53165060. 6802996224. 9143812. 0. 0. 0. MN MX SM AV 0. 0. MONTHLY SUMMARY (JUN) 0. 0. 0. 0. 0. 0. MN MX SM AV 0. 17885370. 0. 0. 0. 0. 0. 0. 1573913. 71611336. 99460. 30396278. 1382998528. 1920831. 813765376. 1130230. MONTHLY SUMMARY (JUL) 0. 19916506. 256254544. 344428. 0. 0. 0. 0. 0. 0. 0. 1031272. 13268803. 17834. 0. 11719003. 150781872. 202664. 0. 0. 0. MN MX 0. 0. 0. 0. 0. 0. SM

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 5/19/1995 10:59:25 PDL RUN 1

ENTECH ENGINEERING

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 5/31/1995

9:32:19

PDL RUN 1

READING, PA 19603

REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE

WEATHER FILE- BALTIMORE, MD

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	10914.29	315598.86
SPACE COOL	4114.67	100718.74
HVAC AUX	53283.52	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	154501.56	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	127947.05	0.00
TOTAL	350761.09	416317.60
TOTAL	330,01.09	410317.00

TOTAL SITE ENERGY 767075.48 MBTU 322.2 KBTU/SQFT-YR GROSS-AREA 322.2 KBTU/SQFT-YR NET-AREA TOTAL SOURCE ENERGY 1469644.80 MBTU 617.3 KBTU/SQFT-YR GROSS-AREA 617.3 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 96.1

PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

PDL RUN		EKING	BADUS - EL.	LIE SUPIWARE	DEARDONENI I	NC DOE-	4.1D	5/31/1995	9:32:19
	ADING, PA	19603							
		LY-REPORT							
PAGE 1-									
								*	
MMDDHH	ENG-CHLR	ENG-CHLR	ENG-CHLR	ENG-CHLR	CERAMIC-	CERAMIC-			
					TWR	TWR			
	LOAD	BLECTRIC	STEAM	COP	FAN	PUMP			
		USE	USE		BLEC	ELEC -			
	BTU/HR	BTU/HR	BTU/HR	FRAC.OR MULT.	BTU/HR	BTU/HR			
	( 1)	(3)	(4)		(20)	(21)			
MONTHLY	SUMMARY (JAN)							٠,	
	9878268.		4621685.	1,660	114442.	340707.			
MX	21037524	14280	12053630	2 137	114714	240707			
SM	13018886144.	10624321	7420282820	1332 821	85347280	252495770			
AV	17498502.	14280.							
Α,	1,470302.	14200.	9313 <del>4</del> 30.	1.731	114/14.	340/0/.			
MONTHLY	SUMMARY (FEB)		:						
MN	9998892.	14280.	4689382.	1,670	114714.	340707.			
MX	21007870.	14280	12120413	2 132	114714	340707			
SM	12058471424.	9596161.	6926555136.	1191.053	77088128.	228954848.			
AV	17944154.	14280:	10307374.		114714.				
MONTHLY	SUMMARY (MAR)								
MN		14280.	5607204	1.584	114714	340707.			
MX	20814512.		5607204. 12380138.	2 078	114714.	340707.			
SM	13982333952.								
AV					114714.				
MONTHLY	SUMMARY (APR)								
MN	12158838.	14280.	5896852.	1 576	114714.	340707.			
MX	20814512.		12703822.	2.062	114714.				
	13932895232.	10281601	8194093568	1230 920	82594416.				
AV	19351244.	14280.	11380686.						
				2.7.20	***/**	540707.			
MONTHLY MN	SUMMARY (MAY) 13566770.	14280	6000760	1 557	11481	340005			
MX	20814512.	14280.	6908758. 12814998.	1.556	114714.	340707.			
	14806548480.								
AV	19901274.	10624321.	8927243264. 11998983.			253485728. 340707.			
			41770703.	1.003	117/14.	340707.			
	SUMMARY (JUN)								
MIN	16801658.	14280.	9475003.	1.456					
MX	20814512.		13313359.						
SM AV	14399915008. 19999882.								
AV	19999882.	14280.	12583984.	1.591	114714.	340707.			
	SUMMARY (JUL)								
MN	19152342.	14280.	11949277. 13460356.	1.430	114714.	340707.			
MX						340707.			
		10624321.	9532713984.						
AV	19855542.	14280.	12812788.	1.551	114714.	340707.			

DL RUN	ENTECH ENGIN	KEKING	EZDOE - EI	ITE SOFTWAR	B DEVELOPMENT	INC DOE-2.1D	5/31/1995	9:32:19
	ADING, PA	19603						
		RLY-REPORT						
AGE 2								
					• • • • • • • • • • • • • • • • • • • •			
	ENG-CHLR	FMC_CUI P	PMC_CUI D	ENG-CHLR	CERAMIC-	********	吳	
	and chine	BNG-CHER	ENG-CHER	MG-CHLK	TWR	CERAMIC- TWR	_	
	LOAD	ELECTRIC	STEAM	COP	FAN	PUMP		
		USE	USE	COF	ELEC	ELEC -		
	BTU/HR	BTU/HR	BTU/HR	FPAC OP		BTU/HR		
	,	220/111	210/ IIIX	MULT.	BIO/ AK	BIU/RK		
	( 1)	(3)	(4)		(20)	(21)		
MONTHI .	Y SUMMARY (AUG)						٠.	
MN	18402000.	14280.	10677252.	1.443	114714	340707		
MX			13383067.		114714.	340707. 340707.		
	14803582976.	10624321.	9492826112	1160 836	95747560	253485728.		
AV		14280.	12759175.	1 560	114714			
				2.300	114/14.	340707.		
MONTHL	SUMMARY (SEP)		1					
MN	15428822.	14280.	8391948.	1.469	114714.	340707.		
MX	20814512.	14280.	13244212.	1.839	114714.	340707.		
SM	20814512. 14381743104.	10281601.	8900113408.	1165.738	82594416.	245308768.		
AV	19974644.	14280 -	12361269.	1.619		340707.		
ONTHLY	SUMMARY (OCT)							
MN	13409496	14280.	6812107.	1.562	114714.	340707.		
MX	20814512.	14280.	12738061.	1.968	114714	340707.		
SM	20814512. 14567443456.	10624321.	8685906944.	1253.252	85347560	253485728.		
AV	19579898.	14280.	11674606.	1.684	114714.	340707.		
י. זעידיגט	SUMMARY (NOV)							
MN	12184164	14290	5014120	1 515		2.222		
MX	20814512	14280.	5914130. 13001321.	2.000	114714.	340707.		
	13451953152.	10281601	7868172288	1745 011	114/14.	340707. 245308768.		
AV	18683268.	14280.	10928017.	1.730				
(A)	CIDARDY (DEC)							
ONTHLY MN	SUMMARY (DEC)	14255	F1010:-					
	10765658.	14280.	5104090.	1.617	114714.	340707.		
CW.	13225072640	10624223	12198897.	2.109	114714.	340707.		
AV	20314526. 13225072640. 17775636.	14280.	10104404	1323.715	85347560.	253485728.		
~,	17773030.	14200.	10184404.	1.779	114714.	340707.		
	SUMMARY							
MN		14280.	4621685. 13460356.	1.430	114442.	340707.		
MX	21037524.	14280.	13460356.	2.137	114714.	340707		
SM	167401357312.	125092808.	100719042560.	14731.724	1004898560.	2984590080.		
ΑV	19109744.	14280.	11497608.	1.682	114714.			

ENTECH ENGINEERING EZDOE - ELITE SC EDL RUN 1 READING, PA 19603 REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

	RIECTRIC	NTRL-GAS	
MONTH	UNIT=	UNIT=	¥
	3413.00		
			,
JAN			-
ENERGY CONSUMPTION (UNIT/MO)	8979052.	69985.	
PEAK DEMAND (UNIT/HR)			
TOTAL COST (\$)	403528.75	149. 265943.16	
FEB			
ENERGY CONSUMPTION (UNIT/MO)	8099424.	57620.	
PEAK DEMAND (UNIT/HR)	15300	152	
TOTAL COST (\$)	363971.50	218956.73	
MAR			
ENERGY CONSUMPTION (UNIT/MO)	8911435.	49646.	
PEAK DEMAND (UNIT/HR)	15390.	112.	
TOTAL COST (\$)	404545.13	188656.58	
APR			
ENERGY CONSUMPTION (UNIT/MO)	8510660.	33066.	
PEAK DEMAND (UNIT/HR)	15390.	101.	
TOTAL COST (\$)	. 381465.75	125649.66	
MAY			
ENERGY CONSUMPTION (UNIT/MO)	8611452.	19522.	
PEAK DEMAND (UNIT/HR)	15390.	84.	
TOTAL COST (\$)	389093.19	74183.78	
JUN			
ENERGY CONSUMPTION (UNIT/MO)	8205102.	10139.	
PEAK DEMAND (UNIT/HR)	14861.	39	
TOTAL COST (\$)	374230.06	38529.27	
JUL			•
ENERGY CONSUMPTION (UNIT/MO) PEAK DEMAND (UNIT/HR)	8460811.	9504.	
PEAK DEMAND (UNIT/HR)	14669.	31.	
TOTAL COST (\$)	374212.50	36114.64	
AUG			
ENERGY CONSUMPTION (UNIT/MO)			
PEAK DEMAND (UNIT/HR)	14736.		
TOTAL COST (\$)	387492.50	37923.60	
SEP			
ENERGY CONSUMPTION (UNIT/MO)			
PEAK DEMAND (UNIT/HR)	15162.	61.	
TOTAL COST (\$)	367069.63	47633.27	
OCT			
ENERGY CONSUMPTION (UNIT/MO)			
PEAK DEMAND (UNIT/HR)	15162.	94.	
TOTAL COST (\$)	387988.06	98622.37	
ENERGY CONSUMPTION (UNIT/MO)	8599211.	42005	
PEAK DEMAND (UNIT/HR)	15300	102	
TOTAL COST (\$)	385659.63	163347 61	
DEC	303037.03	203347.02	
ENERGY CONSUMPTION (UNIT/MO)	8980737.	63255.	
PEAK DEMAND (UNIT/HR)	15390.	128.	
TOTAL COST (\$)	401450.66		
OTAL			
ENERGY CONSUMPTION (UNIT/YR)	102771544.	404192.	
PEAK DEMAND (UNIT/HR)	15390.	153.	
TOTAL COST (\$)	4620707.00		

put & Two strong absorptions

strong chiller

C.O.P. 1.0

ENTECH ENGINEERING

BZDOE - BLITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 5/31/1995 10:15: 2

PDL RUN 1

READING, PA 19603 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE

WEATHER FILE- BALTIMORE, MD

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ENERGY TYPE IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	9505.31	307651.22
SPACE COOL	16785.97	252311.24
HVAC AUX	53283.48	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	154501.43	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	127946.94	0.00
TOTAL	362023.12	559962.46

TOTAL SITE ENERGY 921982.99 MBTU 387.3 KBTU/SQFT-YR GROSS-AREA 387.3 KBTU/SQFT-YR NET-AREA TOTAL SOURCE ENERGY 1647112.62 MBTU 691.8 KBTU/SQFT-YR GROSS-AREA 691.8 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 96.1
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 80.2

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 5/31/1995 10:15: 2

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PDL RUN 1

READING, PA 19603

REP_1 = HOURLY-REPORT

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MMDDHH	ABSOR2-C	ABSOR2-C	ARCORS G	100000		
	HLR	HLR	ABSOR2-C HLR	ABSOR2-C	CERAMIC-	CERAMIC-
	LOAD	ELECTRIC	STEAM	HLR	TWR	TWR
	20725	USE	USE	HEAT IN	PAN	PUMP
	BTU/HR	BTU/HR	BTU/HR	RATIO	BLBC	BLEC
	210,111	BIO/AR	BIU/AK	BTU/BTU	BTU/HR	BTU/HR
	( 1)	(3)	(4)	(16)	(20)	(21)
	Y SUMMARY (JAN)					
MN	9878268.	142800.	9755078.	0.478	117437.	408848
MX	20767032.	142800.	20280130.	0.994	117437.	408848
SM	12939603968.	106243200.	13049927680.	639.702	87373464.	304182880
AV	17391940.	142800.	17540226.	0.860	117437.	408848
MONTHL	Y SUMMARY (FEB)		7			
MN	9998892.	142800.	9925340.	0.487	117437.	400040
MX	20636654.	142800.	20441584.	1.002	117437.	408848 408848
SM	11966147584.	95961600.	12070671360.	591.700	78917976.	
AV	17806768.	142800.	17962308.	0.881	117437.	274745824 408848
MONTUT	SUMMARY (MAR)					
MN	11649790.	143000	4.000			
MX	20820312.	142800.	11753479.	0.576	117437.	408848
SM	13827356672.	142800.	21005624.	1.030	117437.	408848
AV	18585156.	106243200. 142800.	13959863296.	684.307	87373464.	304182880
	10303130.	142800.	18763258.	0.920	117437.	408848
	SUMMARY (APR)					
MN	12158838.	142800.	12267058.	0.601	117437.	408848.
MX	20820312.	142800.	21005624.	1.030	117437.	408848.
SM	13598764032.	102816000.	13833171968.	678.097	84554968.	294370528.
AV	18887172.	142800.	19212738.	0.942	117437.	408848.
	SUMMARY (MAY)					
MIN	13077848.	142800.	13687521.	0.671	. 117437.	408848.
MX	20820312.	142800.	21005624.	1.030	117437.	408848.
SM	13506153472.	106243200.	14220453888.	697.081	87373464.	304182880.
AV	18153432.	142800.	19113514.	0.937	117437.	408848.
	SUMMARY (JUN)					
MN	8129122.	142800.	10866674.	0.533	117437.	408848.
MX	20820312.	142800.	21005624.	1.030	117437.	408848.
SM	11180835840.	102816000.	12652231680.	620.207	84554968.	294370528.
AV	15528939.	142800.	17572544.	0.861	117437.	408848.
ONTHLY	SUMMARY (JUL)					
MN	3079621.	142800.	4488244.	0.220	117437.	408848.
MX	20284712.	142800.	20666760.	1.013	117437.	408848.
SM	10361350144.	106243200.	12175726592.	596.849	87373464.	304182880.
AV	13926546.	142800.	16365224.	0.802	117437.	408848.

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DL RUN	II ADING, PA	19603						
		RLY-REPORT						
AGE 2								
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	ABSOR2-C	ABSOR2-C	ABSOR2-C	ABSOR2-C	CERAMIC-	CERAMIC-	· · · · · · · · · · · · · · · · · · ·	
	. HLR	HLR	HLR	HLR	TWR	TWR		
	LOAD	BLECTRIC	STEAM	HEAT IN	FAN	PUMP		
		USE	USE	RATIO	ELEC	ELEC		
	BTU/HR	BTU/HR	BTU/HR	BTU/BTU	BTU/HR	BTU/HR		
	( 1)	(3)	( 4)	(16)	(20)	(21)		
момтні.	Y SUMMARY (AUG)							
MN	5897510.		8200202	0.402	117437	408848.		
MX		142800.	8200202. 20457986.	1.003	117437.	408848.		
	10523711488.					304182880.		
AV	14144774.							
AV	14144//4.	142000.		0.015	11/13/.	400040.		
	Y SUMMARY (SEP)							
MN	8530775.	142800.	11113586.	0.545	117437.	408848.		
MX			21005624.	1.030	117437.	408848.		
	11970027520.	102816000.	13105483776.		84554968.			
AV	16625038.	142800.	18202060.	0.892	117437.	408848.		
	Y SUMMARY (OCT)							
MN			13528848.		117437.			
MX	20820312.	142800.	21005624.	1.030	117437.	408848.		
SM	13668769792.	106243200.	14201334784.	696.144	87373464.	304182880.		
AV	18372002.	142800.	19087816.	0.936	117437.	408848.		
MONTHL	Y SUMMARY (NOV)							
MN	11996625.	142800.	12292609.	0.603	117437.	408848.		
MX	20820312.	142800.	21005624.			408848.		
SM	12976350208.	102816000.	13249860608.	649.503	84554968.	294370528.		
AV	18022708.	142800.	18402584.	0.902	117437.	408848.		
MONTHL	Y SUMMARY (DEC)							
MN	10765657.	142800.	10861476. 20303630.	0.532	117437.	408848.		
MX	20124510.	142800.	20303630.	0.995	117437.	408848.		
SM	13151798272.				87373464.			
AV	17677148.	142800.	17842940.	0.875	117437.	408848.		
YEARLY	SUMMARY							
MN	3079621.	142800.	4488244.	0.220	117437.	408848.		
MX	20820312.	_		1.030				
	149670871040.							
AV	17085716.	142800.		0.885	117437.	408848.		

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EDL RUN 1
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REPORT- ES-D SUMMARY OF FUBL AND UTILITY USE AND COSTS

	DE DOWN TO	AUTOL CAC	
MONTH	BUBCIRIC	NIKL-GAS	. F
MONTH	UNITE	NTRL-GAS UNIT= 1030000.00	
	3413.00	1030000.00	•
JAN			•
ENERGY CONSUMPTION (UNIT/MO)	9133223. 15580.	80074.	
PEAK DEMAND (UNIT/HR)	15580.	164.	
TOTAL COST (\$)	410356.31	304282.97	
FEB			
ENERGY CONSUMPTION (UNIT/MO)	8247129.	67043.	
PEAK DEMAND (UNIT/HR)	15580.	166.	
TOTAL COST (\$)	370586.50	254763.45	
MAR			
ENERGY CONSUMPTION (UNIT/MO)	9118826.	61187.	
PEAK DEMAND (UNIT/HR)	15580.		
TOTAL COST (\$)	413965.25	232509 38	
APR	113303.23	434303.36	
ENERGY CONSUMPTION (UNIT/MO)	0706771	45722	
PEAK DEMAND (UNIT/HR)	15580. · 393941.59	115.	
	393941.59	173748.48	
MAY			
ENERGY CONSUMPTION (UNIT/MO)			
PEAK DEMAND (UNIT/HR)	15580.	99.	
TOTAL COST (\$)	405528.56	127535.42	
JUN			
ENERGY CONSUMPTION (UNIT/MO)	8573026.	22213.	
PEAK DEMAND (UNIT/HR)	15352.	58.	
TOTAL COST (\$)	390411.13	84407.86	
JUL			1
ENERGY CONSUMPTION (UNIT/MO)	8818216.	20339.	
PEAK DEMAND (UNIT/HR)	15252.	52.	
TOTAL COST (\$)	389445.75		
AUG			
ENERGY CONSUMPTION (UNIT/MO)	8831212.	21180.	
PEAK DEMAND (UNIT/HR)	15307.	59.	
TOTAL COST (\$)	403453.81		
SEP	403433.01	00402.11	
ENERGY CONSUMPTION (UNIT/MO)	8615569.	25358.	
	15352.		•
PEAK DEMAND (UNIT/HR) TOTAL COST (\$)			
OCT	383157.13	96361.56	
,	000000		
ENERGY CONSUMPTION (UNIT/MO)	9032830.		
PEAK DEMAND (UNIT/HR)	15580.	108. 150412.09	
TOTAL COST (\$)	402805.09	150412.09	
NOV			
ENERGY CONSUMPTION (UNIT/MO)	8803291.		
PEAK DEMAND (UNIT/HR)	15580.	116.	
TOTAL COST (\$)	394791.16	204990.75	
DBC			
ENERGY CONSUMPTION (UNIT/MO)	9132441.	73447.	
PEAK DEMAND (UNIT/HR)	15580.	142.	
TOTAL COST (\$)	408165.41	279097.03	
TOTAL			
ENERGY CONSUMPTION (UNIT/YR)	106070992.	543652.	
PEAK DEMAND (UNIT/HR)	15580.	166.	
TOTAL COST (\$)	4766607.50	2065878 63	
\+/	-,0000,.50	2000010.03	

ENTECH ENGINEERING

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

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PDL RUN 1

READING, PA 19603
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE

WEATHER FILE- BALTIMORE, MD

ENERGY TYPE IN SITE MBTU - BLECTRICITY NATURAL-GAS CATEGORY OF USE SPACE HEAT 10913.99 315598.86 SPACE COOL 32914.06 0.00 HVAC AUX 53282.06 0.00 DOM HOT WTR 0.00 0.00 AUX SOLAR 0.00 0.00 LIGHTS 154497.34 0.00 VERT TRANS 0.00 0.00 MISC EQUIP 127943.55 0.00 379550.99 315598.86 TOTAL

292.0 KBTU/SQFT-YR NET-AREA TOTAL SITE ENERGY 695157.13 MBTU 292.0 KBTU/SQFT-YR GROSS-AREA TOTAL SOURCE ENERGY 1455414.58 MBTU 611.3 KBTU/SQFT-YR GROSS-AREA 611.3 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 96.1
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 77.5

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

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PA 19603 ■ HOURLY-REPORT

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OPEN-CEN CERAMIC-CERAMIC-OPEN-CEN OPEN-CEN MMDDHH T-CHLR TWR TWR T-CHLR T-CHLR LOAD BLECTRIC ADJUSTED FAN DITMP ELEC BLEC USE EIR BTU/HR BTU/BTU BTU/HR BTU/HR BTU/HR ----( 1) ---(3) ---- (16) ---- (20) ---- (21) MONTHLY SUMMARY (JAN) 1518342. 0.074 112266. 340707. 9878268. MN 20845828. 3514931. 0.172 114714. 340707. 253485728. 107.474 85332680. SM 13039354880. 2192472832. 114694. 340707. 0.144 ΑV 17526014. 2946872. MONTHLY SUMMARY (FEB) 340707. 0.075 112608. MN 9998892. 1532492. .0.172 114714. 3510549. 340707. MX 20846472. 12077870080. 99.991 77079048. 228954848. SM ΑV 17973020. 3035438. 0.149 114701. 340707. MONTHLY SUMMARY (MAR) MN 11649790. 1778207. 0.087 114714. 340707. 20736154. 3543578. 0.174 116.753 114714. 340707. 85347560. 253485728. SM 14013953024. 2381764608. 340707. 3201297. 0.157 114714. ΑV 18835958. MONTHLY SUMMARY (APR) 114714. 340707. 1860910. 0.091 MN 12158838. 0.174 114714. 340707. 20736154. 3547454. MX 13951238144. 2384152320. 116.870 82594416. 245308768. 340707. ΑV 19376720. 3311323. 0.162 114714. MONTHLY SUMMARY (MAY) 13566770. 2111536. 0.104 114714. 340707. 0.174 114714. 340707. MX 20736154. 3552018. 253485728. 2562842112. 125.630 85347560. 14777086976. SM ΑV 19861676. 3444680. 0.169 114714. 340707. MONTHLY SUMMARY (JUN) 114714. 340707. 16801658. 2837226. 0.139 MN 20736134. 3557559. 0.174 114714. 340707. ΜX SM 14211720192. 2541078784. 124.563 82594416. 245308768. 114714. 340707. ΑV 19738500. 3529276. 0.173 MONTHLY SUMMARY (JUL) 340707. 0.171 114714. MN 17809932. 3490677.

3560064.

3540980.

2634489088.

20427042.

19401496.

14434712576.

MX SM

ΑV

0.175

129.142

0.174

114714.

114714.

85347560.

340707.

340707.

253485728.

PA 19603 = HOURLY-REPORT

PAGE 2						
	OPEN-CEN	open-cen	OPEN-CEN	CERAMIC-	CERAMIC-	
	T-CHLR	T-CHLR		TWR	TWR	· <b>z</b>
	LOAD	ELECTRIC	ADJUSTED	FAN	PUMP	· · · · · · · · · · · · · · · · · · ·
		USE	EIR	BLEC	ELEC	•
•	BTU/HR	BTU/HR	BTU/BTU	BTU/HR	BTU/HR	<del>-</del>
	( 1)	(3)	(16)	(20)	(21)	-
MONTHL	Y SUMMARY (AUG)					
MN		3117811.	0.153	114714.	340707.	
MX	20380426.	3557177.	0.174	114714.	340707.	
SM	14520425472.	2634964736.	129.165	85347560.	253485728.	
	19516700.					
MONTHE	Y SUMMARY (SEP)					
MN	15428824.		0.122	114714.	340707.	
MX	20736154	3557092.	:0.174	114714.	340707.	
	14230432768.				245308768.	
	19764490.		0.171			
	Y SUMMARY (OCT)					
MN						
MX	20736154.	3551963.	0.174	114714.	340707.	
	14559712256.					
AV	19569506.	3369703.	0.165	114714.	340707.	
MONTHL	Y SUMMARY (NOV)					
MN	12184163.	1865919.	0.091	114714.	340707.	
MX				114714.	340707.	
SM	13457640448.	2296074240.	112.553	82594416.	245308768.	*
AV	18691168.	3188992.	0.156	114714.	340707.	
MONTHLY	Y SUMMARY (DEC)					
MIN	10765658.	1638266.	0.080	114699.	340707.	
MX	20353066.	3534298.	0.173	114714.	340707.	
	13239073792.					
AV	17794454.	3002628.	0.147	114714.	340707.	
YEARLY	SUMMARY					
MN	9878268.	1518342.	0.074	112266.	340707.	
MX	20846472.	3560064.	0.175	114714.		
	166513213440.					
AV				114712.		

EDL RUN 1

EDL RUN 1
READING, PA 19603
REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

	RI.RCTR IC	NTRL-GAS
	INIT-	UNIT≖
MONTH	0N11=	NTRL-GAS UNIT= 1030000.00
	3413.00	1030000.00
Jan		
ENERGY CONSUMPTION (UNIT/MO) PRAK DEMAND (UNIT/HR)	9618296.	62781.
PEAK DEMAND (UNIT/HR)	16411.	139. 238567.28
TOTAL COST (\$)	432245.38	238567.28
FEB		
ENERGY CONSUMPTION (UNIT/MO)	8694246.	50895.
PEAK DEMAND (UNIT/HR)	16411.	141.
TOTAL COST (\$)	390661 31	141. 193402.52
143 B		
MAR ENERGY CONSUMPTION (UNIT/MO) PEAK DEMAND (UNIT/HR) TOTAL COST (\$)	0606162	41750
ENERGY CONSUMPTION (UNIT/MO)	3600102.	105
PRAK DEMAND (UNIT/HK)	16410.	150540 55
	435896.22	130049.00
APR		
ENERGY CONSUMPTION (UNIT/MO)		
PEAK DEMAND (UNIT/HR)	16410.	92.
TOTAL COST (\$)	412391.91	92. 95419.04
MAY		
MAY ENERGY CONSUMPTION (UNIT/MO) PEAK DEMAND (UNIT/HR)	9359263.	10855.
PEAK DEMAND (UNIT/HR)	16409.	76.
TOTAL COST (\$)	422434.28	41248.38
JUN		
	8946621.	1343.
ENERGY CONSUMPTION (UNIT/MO)	15876.	
PEAK DEMAND (UNIT/HR)	15876. 406884.63	E102 22
TOTAL COST (\$)	406884.63	5102.32
ım		
ENERGY CONSUMPTION (UNIT/MO)	9229598.	249.
PEAK DEMAND (UNIT/RR)	15704.	19.
TOTAL COST (\$)	407126.25	945.41
AUG		
ENERGY CONSUMPTION (UNIT/MO)	9237787.	764.
DEAR DEMAND (INITY/HE)	15/5/.	29.
TOTAL COST (\$)	421434.38	2901.53
SEP		
ENERGY CONSUMPTION (UNIT/MO)	8979105. 16183.	3894.
PEAK DEMAND (UNIT/HR)	16183.	49.
TOTAL COST (\$)	398792.09	14797.86
OCT (\$)	350752.05	
	9431477.	17520.
ENERGY CONSUMPTION (UNIT/MO)	16183.	83.
PEAK DEMAND (UNIT/HR)	10103.	66577.29
TOTAL COST (\$)	419922.50	003//.23
NOV		25249
ENERGY CONSUMPTION (UNIT/MO)	9268920. 16410.	35347.
PEAK DEMAND (UNIT/HR)		
TOTAL COST (\$)	415541.31	134319.38
DEC		
ENERGY CONSUMPTION (UNIT/MO) PEAK DEMAND (UNIT/HR)	9632137.	55898.
PRAK DEMAND (UNIT/HR)	16411.	120.
TOTAL COST (\$)	430550.88	212413.25
101AD 0001 (4)		120. 212413.25
TOTAL		
PRIPORY CONCIMPATION (INTT/VD)	111209800	306406.
ENERGY CONSUMPTION (UNIT/YR) PEAK DEMAND (UNIT/HR) TOTAL COST (\$)	16411	141
FEAR DEMAND (CNII/UK)	4003881 00	1164344 00
TOTAL COST (\$)	7993001.UV	2204344.00

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EZDOE - ELITE SOFTWARE DEVELOPMENT INC

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PDL RUN 1

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REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE 

WEATHER FILE- BALTIMORE, MD

ENERGY TYPE IN SITE MBTU -	BLECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	10913.79	315598.86
SPACE COOL	5879.23	149529.38
HVAC AUX	53281.10	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	154494.55	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	127941.23	0.00
TOTAL	352509.89	465128.26

TOTAL SITE ENERGY 817652.30 MBTU 343.4 KBTU/SQFT-YR GROSS-AREA 343.4 KBTU/SQFT-YR NET-AREA TOTAL SOURCE ENERGY 1523758.79 MBTU 640.0 KBTU/SQFT-YR GROSS-AREA 640.0 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 96.1 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 76.2

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MDDHH	- ABSORG-C	ABSORG-C	ABSORG-C	ABSORG-C	CERAMIC-	CERAMIC-
חחטטחה	HLR	HLR	HLR	HLR	TWR	TWR
	LOAD	ELECTRIC	FUELUSE	HEAT INP	FAN	PUMP
	HOAD	USE	COOLING	RATIO	BLEC	BLEC -
	BTU/HR	BTU/HR	BTU/HR	FRAC.OR	BTU/HR	BTU/HR
	BIO/AR	BIO/III	220,121	MULT.		,
	( 1)	(3)	(4)	(17)	(20)	(21)
MONTHLY	SUMMARY (JAN)					
MN	9878268.	144840.	8362707.	0.410	117437.	408848
MX	20400000.	144840.	17572676.	0.861	117437.	408848
SM	13082949632.	107760960.	11133954048.	545.782	87373464.	304182880
AV	17584610.	144840.	14964992.	0.734	117437.	408848
MONTHLY	SUMMARY (FEB)		;			
MN	9998893.	144840.	8476593.	0.416	117437.	408848
MX	20400000.	144840.	17474302.	0.857	117437.	408848
SM	12119202816.	97332480.	10308560896.	505.322	78917976.	274745824
AV	18034528.	144840.	15340120.	0.752	117437.	408848
MONTHLY	SUMMARY (MAR)					
MN	11649789.	144840.	9975716.	0.489	117437.	40884
MX	20400000.	144840.	18929982.	0.928	117437.	40884
SM	14077641728.	107760960.	11939423232.	585.266	87373464.	30418288
AV	18921562.	144840.	16047612.	0.787	117437.	408848
MONTHLY	SUMMARY (APR)					
MN	12158838.	144840.	10369869.	0.508	117437.	40884
MX	20400000.	144840.	19217726.	0.942	117437.	408848
SM	14008952832.	104284800.	11879950336.	582.351	84554968.	29437052
AV	19456878.	144840.	16499931.	0.809	117437.	40884
MONTHLY	SUMMARY (MAY)					
MN	13566770.	144840.	11487168.	0.563	117437.	40884
MX	20400000.	144840.	19820992.	0.972	117437.	40884
SM	14908018688.	107760960.	12911524864.	632.918	87373464.	304182880
AV	20037660.	144840.	17354200.	0.851	117437.	40884
MONTHLY	SUMMARY (JUN)					
MN	16801658.	144840.	14205070.	0.696	117437.	40884
MX	20400000.	144840.	21193336.	1.039	117437.	408848
SM	14660571136.	104284800.	13547449344.	664.091	84554968.	294370528
AV	20361904.	144840.	18815902.	0.922	117437.	408848
MONTHLY	SUMMARY (JUL)					
MN	20400000.	144840.	17053278.	0.836	117437.	408848
MX	20400000.	144840.	21595034.	1.059	117437.	408848
SM	15177600000.	107760960.	14642057216.	717.748	87373464.	304182880
ΑV	20400000.	144840.	19680184.	0.965	117437.	408848

ENTECH ENGINEERING

PDL RUN 1

READING, PA 19603

REP_1 = HOURLY-REPORT

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	- <b>-</b>						*
	ABSORG-C	ABSORG-C	ABSORG-C	ABSORG-C	CERAMIC-	CERAMIC-	
	HLR	HLR	HLR	HLR	TWR	TWR	
	LOAD	ELECTRIC	FUELUSE	HEAT INP	FAN	PUMP	
		USE	COOLING	RATIO	BLEC	ELEC -	
	BTU/HR	BTU/HR	BTU/HR	FRAC.OR MULT.	BTU/HR	BTU/HR	
	( 1)	(3)	( 4)	(17)	(20)	(21)	
ONTHLY	SUMMARY (AUG)						
MN	17537750.	144840.	14852805.	0.728	117437.	408848.	
MX	20400000.	144840.	21389460.	1.049	117437.	408848.	
SM	15170971648.	107760960.	14510192640.	711.284	87373464.	304182880.	
AV	20391090.	144840.	19502948.	0.956	117437.	408848.	•
MONTHLY	SUMMARY (SEP)		•				
MIN	15428822.	144840.	13026006.	0.639	117437.	408848.	
MX	20400000.	144840.	21005760.	1.030	117437.	408848.	
SM	14560152576.	104284800.	13150999552.				
AV	20222434.	144840.	18265278.	0.895	117437.	408848.	
ONTHLY	SUMMARY (OCT)						
MN	13409496.	144840.					
MX	20400000.			0.955			
SM	14653491200.	107760960.	12561997824.			304182880.	
AV	19695552.	144840.	16884406.	0.828	117437.	408848.	
	SUMMARY (NOV)						
MN			10389614.		117437.		
MX							
	13561594880.		11639656448.		84554968.		
AV	18835548.	144840.	16166190.	0.792	117437.	408848.	
	SUMMARY (DEC)		****		448435	400040	
MN	10765658.			0.449			
MX	20400000.				117437.		
-	13269807104.		11304118272.				
AV	17835762.	144840.	15193707.	0.745	117437.	408848.	
	SUMMARY		*****	0.470	117477	400040	
MN			8362707.		. 117437.		
MX	20400000.				117437.		
			149529886720.				
AV	19320884.	144840.	17069622.	0.837	117437.	408848.	

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 5/31/1995 9:53:56

EDL RUN 1
READING, PA 19603

REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

	ELECTRIC	NTRL-GAS		
MONTH	UNIT=	UNIT=		₹ .
	3413.00	1030000.00		·•
			•	
JAN			-	
ENERGY CONSUMPTION (UNIT/MO)	9022956.	73591.		
PEAK DEMAND (UNIT/HR)	15449.	154.		
TOTAL COST (\$)		279643.91		
FEB				4.
ENERGY CONSUMPTION (UNIT/MO)	8139081.	60904.		
PEAK DEMAND (UNIT/HR)	15449.	158.		
TOTAL COST (\$)	365728.56			
MAR	303720130	252155101		
ENERGY CONSUMPTION (UNIT/MO)	8955340.	53342.		
PEAK DEMAND (UNIT/HR)	15449.	117		
TOTAL COST (\$)	406508.06			
APR	400,00.00	202077.07		
ENERGY CONSUMPTION (UNIT/MO)	8553154.	36644.		
	15449.	106.		
PEAK DEMAND (UNIT/HR)				
TOTAL COST (\$)	. 383344.91	139247.84		
MAY	0655363	22200		
ENERGY CONSUMPTION (UNIT/MO)	8655362.	23390.		
PEAK DEMAND (UNIT/HR)	15449.			
TOTAL COST (\$)	391046.94	88883.11		
JUN				
ENERGY CONSUMPTION (UNIT/MO)	8247588.	14496.		
PEAK DEMAND (UNIT/HR)	14920.	44.		
TOTAL COST (\$)	376100.50	55083.22		
JUL			*	
ENERGY CONSUMPTION (UNIT/MO)	8504710.	14464.		
PEAK DEMAND (UNIT/HR)	14728.	36.		
TOTAL COST (\$)	376092.34	54964.64		
AUG				
ENERGY CONSUMPTION (UNIT/MO)	8512752.	14851.		
PEAK DEMAND (UNIT/HR)	14795.	45.		
TOTAL COST (\$)	389430.50	56434.28		
SEP				
ENERGY CONSUMPTION (UNIT/MO)	8287259.	16662.		
PEAK DEMAND (UNIT/HR)	15221.	<b>6</b> 6.		
TOTAL COST (\$)	368901.53	63316.07		
OCT				
ENERGY CONSUMPTION (UNIT/MO)	8743943.	29716.		
PEAK DEMAND (UNIT/HR)	15221.	99.		
TOTAL COST (\$)	389887.63	112922.45		
NOV				
ENERGY CONSUMPTION (UNIT/MO)	8641702.			
PEAK DEMAND (UNIT/HR)	15449.	107.		
TOTAL COST (\$)	387538.88	177261.95		
DEC				
ENERGY CONSUMPTION (UNIT/MO)	9024640.	66873.		
PEAK DEMAND (UNIT/HR)	15449.	134.		
TOTAL COST (\$)	403386.56	254117.88		
		******		
TOTAL				
ENERGY CONSUMPTION (UNIT/YR)		451581.		
PEAK DEMAND (UNIT/HR)	15449.	158.		
TOTAL COST (\$)	4643440.00	1716007.25		

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PDL RUN	ENTECH ENGINE:	<del>_</del>		- ELITE SOFTWARE		INC DOE-2.11
		19603				
EP 1		RLY-REPORT				
AGE 1-	1					
	-					
MDDHH	OPEN-CEN	OPEN-CEN			CERAMIC-	CERAMIC-
	T-CHLR	T-CHLR	T-CHLR	TWR	TWR	TWR
	LOAD	ELECTRIC	SIZES	LOAD	PAN	PUMP .
		USE	RUNNING		BLEC	ELEC
	BTU/HR	BTU/HR		BTU/HR	BTU/HR	BTU/HR
	( 1)	(3)		( 1)	(20)	(21)
MONTHLY	SUMMARY (JAN)					
MIN	7604153.					
MX	23643312.	6504046.	2.	29476180.	318865.	
				14880073728.		
AV	15463855.	5040268.	2.	20000100.	86846.	621719.
MONTHLY	SUMMARY (FEB)		*			
MN	7725983.	3252094.	1.	10661092.	0.	400831.
MX		6503864.	2.	29597096. 13965714432.	319308.	801662.
	10840133632.	3472866048.	1069.	13965714432.	70106584.	428488512.
AV	16131151.	5167956.	. 2.	20782314.	104325.	637632.
MONTHLY	SUMMARY (MAR)					
MN	9393389.	3252037.	1.	12326497.	0.	400831.
MX	30042880.	6504056.	2.	35742908.	425317.	801562.
SM	13259436032.	4118991360.	2.	12326497. 35742908. 16966528000. 22804474.	141233.	683676.
AV	17821822.	5536279.	2.	22804474.	141233.	003070.
MONTHLY	SUMMARY (APR)					
MIN	9907528.	3252039.	1.	12840021. 35989744.	0.	400831.
MX	30345800.	6503964.	2.	35989744.	639975.	801662.
				18142742528.		
AV	19920864.	5863766.	2.	25198254.	193402.	725393.
	SUMMARY (MAY)					
WM	11302996.	3252055.	1.	14233825.	0. 863296.	
MX		6503863.	1436	14233825. 35989744. 22241087488.	863296. 236051456.	575593600.
AV	18089349120. 24313642.			29893934.	317273.	
MONTHI.V	SUMMARY (JUN)					
MN	9016006.	3237220.	1.	11932700.	0.	400831.
MX	60691600.	13/18//3.	4.	12133404.	TTT3040.	
SM	30326816768.	7322349568.	2263.	36916928512.	546493056.	907080960.
AV	42120580.			51273512.		
MONTHLY	SUMMARY (JUL)					
MN	14911776.	6271049. 22536138.	2.	20731804. 107862104.	0.	801662.
MX						
SM				45553008640.		1083446400.
AV	50258608.	12187278.	4.	61227164.	880986.	1456245.

ACT #7 CHILLED WATER

STOLAGE

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC
PDL RUN 1

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REP_1 = HOURLY-REPORT

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							1.
	OPEN-CEN	OPEN-CEN	OPEN-CEN	CERAMIC-	CERAMIC-	CERAMIC-	<b>一</b>
	T-CHLR	T-CHLR	T-CHLR	TWR	TWR	TWR	•
	LOAD	ELECTRIC	SIZES	LOAD	FAN	PUMP	
		USE	RUNNING		RLEC	ELEC -	
	BTU/HR	BTU/HR		BTU/HR	BTU/HR	BTU/HR	
	•						*
	(1)	(3)	(6)	( 1)	(20)	(21)	
	, _,	•					w ₁ .
MONTHLY	SUMMARY (AUG)						
MN	14586235.	3252160.	1.	17513178. 107733136.	٠.0	400831.	
MX	89277176.	21659110.	6.	107733136.	1113640.	2404987.	
SM	36598652928.	8933062656.	2692.	44638408704.	646246848.	1079037568.	
				59997860.			
MONTHLY	SUMMARY (SEP)		•				
MN	8725346.	3233693.	1.	11642373. 72140320.	0.	400831.	
MX	60691600.	14138610.	4.	72140320.	1113640.	1603325.	
SM	26219841536.	6587972096.	2032.	32149016576.	449007840.	814488768.	
AV	36416448.	9149961.	3.	44651412.	623622.	1131234.	
MONTHLY	SUMMARY (OCT)						
MN	6579702.	3233817.	1.	9499195.	0.	400831.	
MX	57228504.	12857941.	4.	68749144.	1087323.	1603325.	
		5040742912.	1559.	21818226688.			
AV	23227902.	6775192.	2.	29325574.	274522.	839914.	
MONTHLY	SUMMARY (NOV)						
				12865571.			
MX	30345800.	6503928.	2.	36069580.	972711.	801662.	
				16633622528.			
AV	18209688.	5436190.	2.	23102254.	173583.	672506.	
	SUMMARY (DEC)		_	*******		*****	
MN	8500417.	3252059.	1.	11434595.	0.	400831.	
MX	25219452.	6503962.	2.	31048726. 15065449472.	328506.	801662.	
AV	15685877.	5070426.	2.	20249260.	96867.	625491.	
	Ornara Dir						
	SUMMARY	2222602		0400105	^	400021	
. MAY	89708320.	2233023.	· .	9499195. 107862104.	1113640	2404987	
				298970775552.			
	27470044.				378264.		
AV	2/4/0044.	1330331.	2.	37167007.	J,0234.	J00230.	

ENTECH ENGINEERING

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

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PDL RUN 1 READING,

PA 19603 # HOURLY-REPORT

REP_2 = HOURLY-RE
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______ _____ MMDDHH CTANK-ST CTANK-ST CTANK-ST CTANK-ST CTANK-ST CTANK-ST CTANK-ST ORAGE ORAGE ORAGE ORAGE ORAGE ORAGE ORAGE CAPACITY TOTAL IN ENERGY ENERGY TANK ENERGY ENERGY AVAILABL REQUESTD STORAGE RUNNING TEMP RELEASED STORED BTU/HR BTU/HR BTU/HR P BTU/HR BTU/HR BTU/HR ---(7) ----(8) ----(9) ---- (11) ---- (14) ----(4) ----(1) MONTHLY SUMMARY (JAN) 0. Ο. 0. ٥. ٥. 0. 44.00 ο. 0. 44.06 0. MX ٥. ٥. n 32758.17 ο. 0. Ο. 0. Ο. SM 0. ٥. ٥. 0. ΑV 0. 0. MONTHLY SUMMARY (FEB) 44.06 0. 0. ٥. Ο. ٥. MN 0. ٥. ٥. Ο. MX 0. Ο. 0. ٥. 29626.09 0. SM 0. Ο. ΑV 0. Ģ. ο. 0. 0. 44.09 0. MONTHLY SUMMARY (MAR) Ο. 0. 0. 44.11 ο. Ο. MN ΜX ٥. ٥. 0. 0. Ο. 44.17 0. 32842.45 Ο. ٥. SM 0. ٥. 0. 0. Ο. ٥. 0. 44.14 ΑV 0. 0. MONTHLY SUMMARY (APR) 44.17 ٥. ο. MN 0. MX 44.23 ٥. Ο. 31825.18 Ο. Ο. Ο. 0. 0 α. 44.20 Ο. ΑV 0. 0. 0. 0. 0. MONTHLY SUMMARY (MAY) 44.23 0. 0. ο. 0. ο. 0. ٥. 44.29 0. 0. 0. ΜX 0. 0. Ο. 32929.59 SM 0. ٥. ΑV ٥. ٥. ο. ٥. Ο. 44.26 ο. MONTHLY SUMMARY (JUN) 0. ٥. 0. 0. 32.00 ٥. 14400000. 14400000. 14400000. 14400000. 119998592. 14400000. ΜX 44.29 2361259008. 6590353920. 3962525952. 28453.68 32268836864. 2364888320. SM 2361259008. 3279527. 3279527. AV 3284567. 9153269. 5503509. 39.52 44817828. MONTHLY SUMMARY (JUL) 0. ٥. 32.00 MN 0. 14400000. 14400000. 14400000. 14400000. 119998592 14400000. 44.00 27856.92 2285587200. 8790234112. 2948342272. 48792186880. 2193566720. SM 2193566720. 2948342. 3072026. 2948342. 11814831. 3962826. 65580896. ΑV

ENTECH ENGINEERING EZDOE - BLITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/5/1995

PDL RUN 1

READING, PA 19603

REP_2 = HOURLY-REPORT

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							•	
	CTANK-ST	CTANK-ST	CTANK-ST	CTANK-ST	CTANK-ST	CTANK-ST	CTANK-ST	
	ORAGE	ORAGE	ORAGE	ORAGE	ORAGE	ORAGE	ORAGE	
	ENERGY	ENERGY	CAPACITY	ENERGY	ENERGY	TANK	TOTAL IN	
	RELEASED	STORED	RUNNING	AVAILABL	REQUESTD	TEMP	STORAGE	
	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	P	BTU/HR	
	D10/120	210/101			,	_	•	
	(1)	(4)	(7)	(8)	(9)	(11)	(14)	
MONTHIS	Y SUMMARY (AUG)							
MN	0.	0.	0.	0.	0.	32.00	0.	
MX	14400000.	14400000.		14400000.		44.00	119998592.	
SM	2632864512.	2542553600.	2632864512.					
AV	3538797.	3417411.	3538797.	13049345.	4077468.		74017536.	
AV	3530/9/.	341/411.	3330737.	13049343.	4077400.	30.00	71017330.	
MONTHLY	SUMMARY (SEP)		<del>.</del>					
MN	0.	0.	0.					
MX	14400000.	14400000.	14400000.	14400000.	14400000.	44.01		
SM	2341631488.	2342380032.	2341631488.	6644628992.	3160046848.	28213.60	34668986368.	
AV	3252266.	3253306.	3252266.	9228651.	4388954.	39.19	48151368.	
MONTHLY	SUMMARY (OCT)							
MN	0.	0.	0.	0.	0.	32.00	0.	
MX	14400000.	14400000.	14400000.	14400000.	14400000.	44.00	119998592.	
SM	2783820800.	2861414656.	2783820800.	7924092416.	2861414656.	28380.38	43559141376.	
AV	3741695.	3845988.	3741695.	10650662.	3845988.	38.15	58547232.	
MONTHLY	SUMMARY (NOV)							
MIN	0.	0.	0.	14400000.	0.	. 36.32	75923680.	
MIX	0.	0.	0.	14400000.	0.	36.41	76774976.	
SM	0.	0.	0.	10368000000.	0.	26182.85	54971523072.	
AV	0.	0.	0.	14400000.	0.	36.37	76349336.	
MONTHLY	SUMMARY (DEC)							
MN	0.	0.	0.	14400000.	0.	36.41	75042784.	
MX	0.	0.	0.	14400000.	0.	36.50	75922496.	
SM	0.	0.	0.		0.	27120.09	56159092736.	
AV	0.	0.	0.	14400000.	0.	36.45	75482648.	
Av	••	٠.	••					
	SUMMARY							
MIN	0.	0.	0.	0.	0.	32.00	0.	
· MIX	14400000.	14400000.	14400000.	14400000.	14400000.	44.29	119998592.	
SM	12313142272.	12396823552.	12313142272.	60739624960.	15965965312.		325488803840.	
AV	1405610.	1415163.	1405610.	6933747.	1822599.	40.34	37156256.	

		ENGINEERI	NG	EZDOE -	- ELITE	SOFTWARE	DEVELOPMENT	INC	DOE-2.1D	6/ 5/1995	10:23:13
PDL RUN	V 1		10603								
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	1- 1	- 11001101									
										· · · · · · · · · · · · · · · · · · ·	
MMDDHH	GLOBAL	GLOBAL									
	. AMBIENT	AMBIENT									
		WETBULB									
		F							-		
	( 1)	( 2	)								
MONTEUR	LY SUMMARY	(.TANI)									
	6.0		00								
MX		56.0									
SM		20501.0									
		27.5									
	LY SUMMARY			:							
	6.0										
MX		56.0									
SM		21225.0									
AV	34.6	31.5									
MONTHI	LY SUMMARY	(MAR)									
		18.0	00								
MX		62.0									
SM		27192.0									
AV	42.5	36.5	48								
MONTHL	Y SUMMARY	(APR) 24.00	20					•.			
MX		66.00						•			
	37106.0										
	51.5										
	Y SUMMARY										
	35.0										
MX		69.00									
	45840.0 61.6	53.4									
AV	01.0	33.1	, 5								
MONTHL	Y SUMMARY										
		47.00									
MIX		78.00									
SM		46226.00									
AV	72.7	64.20	13								
MONTHL	Y SUMMARY	(JUL)									
	56.0		00								
MX		80.00									
	56668.0										
AV	76.2	68.79	59								

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 6/5/1995

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SM

AV

476532.0 424283.000 54.4 48.434

## MESSAGE LIST FROM ECONOMICS PROGRAM

 	FUEL-OIL					****	****	***	****	****	*:
 	*******				****	****	****	***	***	***	* 1

	ELECTRIC	FUEL-OIL		
ONTH	UNIT=	UNIT=		¥
···	3413.00			
				-
			•	
(	0047077	470477.		
ENERGY CONSUMPTION (UNIT/MO)	9847873.			
PEAK DEMAND (UNIT/HR)	17098.			
TOTAL COST (\$)	443096.31	557985.63		
3				
ENERGY CONSUMPTION (UNIT/MO)	8917763.	381527.		
PEAK DEMAND (UNIT/HR)	17098.	1052.		
TOTAL COST (\$)	401242.38	452490.97		
1				
ENERGY CONSUMPTION (UNIT/MO)	9929975.	312809.		
PEAK DEMAND (UNIT/HR)	17110.	795.		
TOTAL COST (\$)		370991.88		
PR	431207.72	370331.00		
	0620561	188047.		
ENERGY CONSUMPTION (UNIT/MO)				
PEAK DEMAND (UNIT/HR)	17229.	692.		
TOTAL COST (\$)	. 431845.00	223024.08		
Y.				
ENERGY CONSUMPTION (UNIT/MO)	10006903.			
PEAK DEMAND (UNIT/HR)	17413.	574.		
TOTAL COST (\$)	451724.00	96102.55		
N				
ENERGY CONSUMPTION (UNIT/MO)	10807444.	9951.		
PEAK DEMAND (UNIT/HR)	19998.			
TOTAL COST (\$)		11802.10		
L COST (\$)	100252.71			
ENERGY CONSUMPTION (UNIT/MO)	11756589.	1821.	•	
PEAK DEMAND (UNIT/HR)	23187.	142.		
TOTAL COST (\$)	522856.25			
	322030.23	2137.73		
;	11702240	5671.		
ENERGY CONSUMPTION (UNIT/MO)				
PEAK DEMAND (UNIT/HR)	22502.	217.		
TOTAL COST (\$)	536502.38	6725.46		
P				
ENERGY CONSUMPTION (UNIT/MO)	10473024.			
PEAK DEMAND (UNIT/HR)	20095.	375.		
TOTAL COST (\$)	462057.19	34422.38	•	
T				
ENERGY CONSUMPTION (UNIT/MO)	10157280.	131204.		
PEAK DEMAND (UNIT/HR)	18689.	624.		
TOTAL COST (\$)		155607.84		
V				
v ENERGY CONSUMPTION (UNIT/MO)	9600024.	264909.		
	17598.	701.		
PEAK DEMAND (UNIT/HR)	431007.75			
OTAL COST (\$)	431007.75	314181.03		
	********	*****		
NERGY CONSUMPTION (UNIT/MO)	9859568.			
EAK DEMAND (UNIT/HR)	17098.	896.		
TOTAL COST (\$)	441219.44	496830.59		
AL				
NERGY CONSUMPTION (UNIT/YR)	122688256.			
AK DEMAND (UNIT/HR)	23187.			
TAL COST (\$)	5511994.50			

451002.56

EUL RUN 1
READING, PA 19603
REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

	· <b>-</b>							
монтн	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
	(armina)							
•						-		
JAN		408	4896861.	195874.45	17098.	17098.	0.00	
	OFF_PWIN INT WIN	168	2168780.	99763.90	16869.	16869.	0.00	
	ON_PWIN	168	2782226.	147457.98	17098.	17098.	0.00	
443096.31 FEB	L							
	OFF_PWIN	368	4425239.	177009.58	17098.	17098.	0.00	
	INT_WIN	152	1981578.	91152.59	16869.	16869.	0.00	
	ON_PWIN	152	2510947.	133080.20	17098.	17098.	0.00	
401242.38 MAR	3							
MAK	OFF PWIN	376	4460249.	178409.97	17110.	17110.	0.00	
	INT_WIN	184	2442543.	112356.98	16870.	16870.	0.00	
	ON_PWIN	184	3027184.	160440.78	17098.	17098.	0.00	
451207.72 APR	!							
APR	OFF_PWIN	400	4898403.	195936.14	17098.	17098.	0.00	
	INT WIN	160	2120300.	97533.80	16870.	16870.	0.00	
	ON_PWIN	160	2610850.	138375.06	17229.	. 17229.	0.00	
431845.00 MAY								
	OFF_PWIN	392	4797812.	191912.47	17413.	17413.	0.00	
	INT_WIN	176	2324333.	106919.30	17028.	17028.	0.00	
	ON_PWIN	176	2884758.	152892.20	17391.	17391.	0.00	
451724.00 JUN	)							
•	OFF_PSUM	368	5060859.	172069.22	19933.	19933.	0.00	
	INT_SUM	176	2674985.	125724.30	19998.	19998.	0.00	
	ON_PSUM	176	3071604.	190439.45	19525.	19525.	0.00	
488232.94 JUL	ł.							
005	OFF PSUM	424	5891615.	200314.91	22669.	22669.	0.00	
	INT_SUM	160	2739156.	128740.33	23187.	23187.	0.00	
	ON_PSUM	160	3125822.	193800.98	22194.	22194.	0.00	
522856.25 AUG	i							
	OFF_PSUM	376	5102979.	173501.30	21412.	21412.	0.00	
	INT_SUM	184	3076883.	144613.48	22502.	22502.	0.00	
	ON_PSUM	184	3522381.	218387.61	22045.	22045.	0.00	
536502.38 SEP	ı							
	OFF_PSUM	400	5435743.	184815.27	20095.	20095.	0.00	
	INT_SUM	160	2337934.	109882.91	19813.	19813. 19285.	0.00	
	ON_PSUM	160	2699338.	167358.98	19285.	17400.	0.00	
462057.19 OCT	1							
	OFF_PSUM	408	5121871.	174143.61	18652.	18652.	0.00	
	INT_SUM	168	2355737.	110719.63	18689. 18389.	18689. 18389.	0.00 0.00	
	ON_PSUM	168	2679667.	166139.33	10367.	10307.	0.00	

MONTH .	CHARGE - ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
-								
NOV								
	OFF PWIN	400	4848515.	193940.61	17098.	17098.	0.00	
	INT WIN	160	2108979.	97013.02	17325.	17325.	0.00	
	ON_PWIN	160	2642531.	140054.13	17598.	17598.	0.00	
431007.79	5							
DEC								
	OFF PWIN	424	5144936.	205797.45	17098.	17098.	0.00	
	INT WIN	160	2064764.	94979.13	16869.	16869.	0.00	
	ON_PWIN	160	2649865.	140442.86	17098.	17098.	0.00	
441219.44	4							
		-	122688256.	5511994.50			0.00	
TOTAL 5511994.5	=0		144088436.	3311334.30			0.00	
ココナエブブサ・コ	J U							

ENERGY TYPE IN SITE MBTU -	BLECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	10947.83	318369.92
SPACE COOL	83319.23	0.00
HVAC AUX	42019.89	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	154498.79	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	127944.75	0.00
TOTAL	418730.48	318369.92

TOTAL SITE ENERGY 737104.69 MBTU 309.6 KBTU/SQFT-YR GROSS-AREA 309.6 KBTU/SQFT-YR NET-AREA TOTAL SOURCE ENERGY 1575831.99 MBTU 661.9 KBTU/SQFT-YR GROSS-AREA 661.9 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 95.8 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 18.2

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

COOLING TIME DRY- WET- COOLING REEGY OF MAX BULB BULB COOLING LOAD MAXIMUM STRENGY OF MAX BULB BULB COOLING LOAD MATH TEMP TEMP TEMP (KBTU/HR)  NATH (MBTU) DY HR TEMP TEMP (KBTU/HR)  NATH \$3650.66406 9 13 59.P 56.P 15295.960  NA 9366.09961 1 6 65.P 62.P 30370.992  NR 6862.31689 19 17 83.P 63.P 41460.289  NA 27314.77344 28 17 78.P 69.P 51664.422  NA 27314.77344 28 17 78.P 69.P 51664.422  NA 27314.77344 28 17 78.P 69.P 51664.22  NA 27314.77344 28 17 78.P 69.P 51664.22  NA 27314.77344 28 17 78.P 69.P 77.P 94212.586  NA 27314.77266 31 15 90.P 79.P 97529.805  NA 27314.7226 31 15 90.P 79.P 6682.914  NY 10218.31445 2 14 82.P 73.P 66985.898  NY 10218.31445 2 14 82.P 73.P 66985.898  NY 10218.31445 2 14 82.P 73.P 66985.898							
COOLING TIME DRY- WET- BURBGY OP MAX BULB BULB 9650.66406 9 13 59.P 56.P 9366.09961 1 6 65.P 62.P 12272.81348 19 17 83.P 63.P 12272.81344 28 17 78.P 69.P 27314.7734 28 17 78.P 69.P 27314.7734 28 17 91.P 77.P 27314.7734 28 17 91.P 77.P 27314.7734 28 17 91.P 77.P 27314.7734 28 17 91.P 77.P 27314.7734 28 17 91.P 77.P 27314.7734 28 17 91.P 77.P 27314.7734 28 17 91.P 77.P 38634.26270 13 14 82.P 76.P 10218.31445 2 14 82.P 73.P 9672.08398 29 6 59.P 58.P  LL 197310.047	1	# · · · ·	BATI	9 2	1 1 1 1		 
HH (MBTU) DY HR TEMP TEMP  9650.66406 9 13 59.P 56.P  8811.03516 28 16 62.P 56.P  9366.09961 1 6 65.P 62.P  12272.81348 28 17 91.P 77.P  27314.77344 28 17 91.P 77.P  34634.72266 31 15 90.P 79.P  21721.09570 2 14 92.P 76.P  8284.26270 13 14 82.P 77.P  10218.31445 2 14 82.P 77.P  10218.31445 2 14 82.P 77.P	CIMUM		À		MAXIMUM	BLBC-	MOMIMAM
HH (MBTU) DY HR TEMP TEMP  9650.66406 9 13 59.P 56.P  8811.03516 28 16 62.P 56.P  6862.31689 19 17 88.P 63.P  12272.81348 28 17 78.P 69.P  27314.77344 28 17 91.P 77.P  38501.51953 24 19 89.P 80.P 1  34634.72266 31 15 90.P 79.P  21721.09570 2 14 92.P 76.P  10218.31445 2 14 82.P 67.P  10218.31445 2 14 82.P 73.P  4L 197310.047		OF MAX			LOAD	ENERGY	LOAD
9650.66406 9 13 59.P 56.P 8811.03516 28 16 62.P 56.P 6862.31689 19 17 88.P 63.P 12272.81348 28 17 78.P 69.P 27314.77344 28 17 91.P 77.P 38501.51953 24 19 89.P 80.P 1 34634.72266 31 15 90.P 79.P 21721.09570 2 14 92.P 76.P 8284.26270 13 14 82.P 67.P 10218.31445 2 14 82.P 73.P 9672.08398 29 6 59.P 58.P	J/HR) (MBTU)	DY HR	TEMP	TEMP	(квти/нк)	(кмн)	(KW)
8811.03516 28 16 62.P 56.P 9366.09961 1 6 65.P 62.P 6862.31689 19 17 83.P 63.P 12272.81348 28 17 78.P 69.P 27314.77344 28 17 91.P 77.P 38501.51953 24 19 89.P 80.P 1 34634.72266 31 15 90.P 79.P 21721.09570 2 14 92.P 76.P 8284.26270 13 14 82.P 73.P 10218.31445 2 14 82.P 73.P 9672.08398 29 6 59.P 58.P	5.960 -32902.414	31 7	9.	ν. Έ	-85952.219	7278727.	9980.636
9366.09961 1 6 65.F 62.F 68.P 68.2 11689 19 17 83.P 63.F 12272.81348 28 17 78.F 69.F 27314.77344 28 17 78.F 69.F 34634.72266 31 15 90.F 79.F 21721.09570 2 14 92.F 76.F 8284.26270 13 14 82.F 73.F 9672.08398 29 6 59.F 58.F 74.F 197310.047	3.199 -25708.396	3 7	6.8	4.	-86055.023	6576452.	10071.413
6862.31689 19 17 83.P 63.P 12272.81348 28 17 78.P 69.F 27314.77344 28 17 91.P 77.P 38634.72266 31 15 90.P 79.P 21721.09570 2 14 92.P 76.P 8284.26270 13 14 82.P 73.P 9672.08398 29 6 59.P 58.P 71.P 10218.31445 2 14 82.P 73.P 9672.08398 29 6 59.P 58.P 71.P 71.P 10218.310.047	0.992 -18699.600	ر 4	22.F	19.F	-57778.047	7299177.	10366.349
28 17 78.F 69.F 28 17 91.P 77.F 24 19 89.F 80.F 1 31 15 90.F 79.F 2 14 92.F 76.F 13 14 82.F 67.F 2 14 82.F 73.F 2 14 82.F 73.F	0.289 -8965.295	80	28.F	26.P	-47238.844	7114297.	10516.551
27314.77344 28 17 91.P 77.P 38501.51953 24 19 89.P 80.P 1 34634.72266 31 15 90.P 79.P 21721.09570 2 14 92.P 76.P 8284.26270 13 14 82.P 67.P 10218.31445 2 14 82.P 73.P 9672.08398 29 6 59.P 58.P LL 197310.047	4.422 -2904.852	10 5	35.F	29.F	-33899.012	7472921.	10739.647
34634.72266 31 15 90.P 79.P 21721.09570 2 14 92.P 76.P 8284.26270 13 14 82.P 67.P 10218.31445 2 14 82.P 77.P 9672.08398 29 6 59.P 58.P LL 197310.047	2.586 -99.882	22 6	52.F	47.P	-7370.306	7485145.	11583.874
34634.72266 31 15 90.P 79.P 21721.09570 2 14 92.P 76.P 8284.26270 13 14 82.P 67.P 10218.31445 2 14 82.P 73.P 9672.08398 29 6 59.P 58.P LL 197310.047	2.820 -12.145	21 5	56.8	54.8	-3119.688	7878816.	11556.280
21721.09570 2 14 92.P 76.P 8284.26270 13 14 82.P 67.P 10218.31445 2 14 82.P 73.P 9672.08398 29 6 59.P 58.P LL 197310.047	9.805 -41.287	22 4	53.P	53.P	-6793.372	7830316.	11581.631
8284.26270 13 14 82.P 67.P 10218.31445 2 14 82.P 73.P 9672.08398 29 6 59.P 58.P LL 197310.047	9.094 -652.833	30 8	46.F	43.F	-16547.738	7400522.	11453.542
10218.31445 2 14 82.F 73.F 9672.08398 29 6 59.F 58.F	2.914 -5150.780	28 8	32.F	31.F	-39088.969	7427052.	10744.286
9672.08398 29 6 59.F 58.F	5.898 -15182.826	23 7	28.F	25.F	-48753.648	7092279.	10746.001
JTAL 197310.047	7.338 -27834.092	21 7	15.F	13.F	-69830.406	7279062.	10015.037
	-138154.125					88132888.	
MAX 102682.820	2.820				-86055.023		11583.874

DOB-2.1D 8/10/1995 11:56:23 SDL RUN 1

EZDOB - BLITE SOPTWARE DEVELOPMENT INC

ENTECH ENGINEERING

DOR-2.1D 8/10/1995 11:56:23 SDL RUN 1 WEATHER FILE- BALTIMORE, MD RZDOR - BLITE SOFTWARE DEVELOPMENT INC BLD 7 ENTECH ENGINEERING RZDOB - READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

MAXIMUM BLEC LOAD (KW) 256.948 215.848 242.914 309.113 310.022 308.919 - - - B L B C - - -187.097 197.260 299.366 247.837 268.445 188.259 310.022 RLEC-TRICAL ENERGY (KWH) 130359. 118056. 132571. 133630. 151236. 169671. 183179. 144207. 187632. 161078. 130932. 130399. 1772953. MAXIMUM HEATING LOAD (KBTU/HR) 0.00 0.000 0.00 -1242.406 -617.025 -368.901 -23.277 -444.073 -620.654 -956,661 -1242.406 -1202.864 -772.466 - - - - - HEATING - -WET-BULB TEMP 7. F 4 . F 28.F 26.F 30.F 46.F 43.F 32.F 31.F 28.F 25.F 16.F 14.F 23.F 20.F DRY-BULB TEMP 6.F 36.F 6.F TIME OF MAX DY HR æ -9 30 28 23 22 31 HEATING ENERGY (MBTU) -0.032 -10.086 0.000 0.00 0.000 -20.454 -124.683 -317.204 -1369.740 -395.770 -289.167 -53.155 -159.189 MAXIMUM COOLING LOAD (KBTU/HR) 217.307 612.326 1015.712 1315.856 1796.270 1620.156 1847.995 201.818 357.541 952.614 1139.992 1822.667 1847.995 - - - - - - COOLING - -58.7 WET-BULB TEMP 62.F 56.F 74.F 56.F 78.F 66.F 82.F 66.F 91.F 77.F 89.F 80.F 93.F 77.F 92.F 76.F 82.F 66.P 82.F 73.F 59.F 56.F DRY-BULB TEMP 2 14 TIME OF MAX DY HR 16 16 14 9 13 91 20 14 21 17 28 17 24 19 18 17 28 13 ~ COOLING ENERGY (MBTU) 7.79866 123.95550 334.37982 650.41040 848.26263 534.61896 224.13701 78.69498 3.34359 2.73361 39.58744 787.59137 3635.517 MONTH TOTAL AUG MAX APR MAY Ę ij SEP ç NOV

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DOR-2.1D 8/10/1995 11:56:23 SDL RUN 1 EZDOR - ELITE SOFTWARE DEVELOPMENT INC 48 GENERAL ENTECH ENGINEERING EZDOR - READING, PA 19603
REPORT - SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

WEATHER FILE- BALTIMORE, MD

COOLING TIME ENERGY OF MAX (MBTU) DY HR 381.89288 9 13 357.57541 28 16 484.01801 29 16	z			,	4	N H			 81	B C
COOLING TIME ENERGY OF MAX (MBTU) DY HR 381.89288 9 13 357.57541 28 16 484.01801 29 16					:					
COCLING COCLING COLLING ENERGY OF HAX (MBTU) DY HR 381.89288 9 13 357.57541 28 16 484.01801 29 16		MAXIMUM	SWIE WAR			2	E GE	MAXIMUM	BLBC-	MAX IMUM
7H (MBTU) DY HR 381.89288 9 13 357.57541 28 16 484.01801 29 16		LOAD	ENERGY	OF MAX			BULB	LOAD	ENERGY	LOAD
381.89288 9 13 357.57541 28 16 484.01801 29 16	TEMP TEMP	(KBTU/HR)	(MBTU)	DY HR			TBMP	(KBTU/HR)	(кмн)	(KM)
381.89288 9 13 357.57541 28 16 484.01801 29 16						-				
357.57541 28 16	59.F 56.F	1501.954	-1201.396	31	2	6.P	œ.	-4459.179	489879.	658.443
484.01801 29 16	62.F 56.F	2251.760	-856.360	٣	7	6.P	4 · P	-4093.808	442471.	658.443
	74.F 56.F	3518.641	-432.911	ល	6 23	23.F	20.F	-2293.320	489879.	658.443
APR 733.60626 19 17 8	83.F 63.F	4740.308	-254.871	6	7 29	29.F	25.P	-1692.586	474076.	658.443
MAY 1344,80310 21 17 8	82.F 66.F	5459.907	-84.728	7	3 52	52.F	48.F	-499.490	489879.	658.443
JUN 2594.07861 10 18 9	92.F 77.F	8479.191	0.000					0.000	474076.	658.443
JUL 3445.25244 25 18 9	91.F 79.F	9095.651	0.000					0.000	489879.	658.443
AUG 3048,66626 18 17 9	93.F 77.F	8526.892	-0.499	22	4 53	53.F	53.F	-499.488	489879.	658.443
SEP 2201.94165 7 17 8	89.F 74.F	7713.309	-22.606	22	4 50.	24	47.F	-499.490	474076.	658.443
ocr 1223.96326 13 17 7	78.F 66.F	4931.443	-150.353	28	8 33	32.F	31.F	-693.637	489879.	658.443
NOV 692.19000 2 14 8	82.F 73.F	5999.702	-343.232	23	7 28	28.F	25.P	-1656.516	474076.	658.443
DEC 388.26837 29 2 5	58.F 57.F	2039.547	-883.625	22	7 16	16.F	14.F	-3195.538	489879.	658.443
TOTAL 16896.561			-4230,519						5768362.	
мах		9095.651						-4459.179		658.443

DOR-2.1D 8/10/1995 11:56:23 SDL RUN 1 WEATHER FILE- BALTIMORE, MD RZDOR - BLITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING EZDOB READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

MAXIMUM BLEC LOAD (KW) 815.959 949.456 1016.820 707.926 1239.137 1274.871 1246.897 1210.900 650.169 1274.871 650.169 943.994 982.588 - - - B L B C - - -621024. BLECTRICAL BNERGY (KWH) 413270. 423642. 490360. 573121. 641112. 532021. 458379. ...... 413270. 5773213. 373905. 414180. 419039. MAXIMUM HEATING LOAD (KBTU/HR) 0.000 0.000 0.000 -5609.576 -7012.576 -7012.576 -4699.829 -4032.827 -2727.695 -1079.086 -3096.783 -3962.647 -6690.547 - - - - - - - HEATING - -5.19 20.F 43.F 31.F 25.F WET-BULB TEMP 4 · F 16.F 14.F 28.F 26.F 36.F 30.F 24.F 46.F DRY-BULB TEMP 6.₽ 6.F 32.F 28.F TIME OF MAX DY HR œ 7 8 8 7 31 m 2 30 28 23 22 -2197.096 HEATING ENERGY (MBTU) 0.000 -267.236 -1067.310 -2546.988 -1208.355 -518.460 -118.999 0.00 0.000 -9.693 -9849.252 -1915.117 0.000 MAXIMUM COOLING LOAD (KBTU/HR) 0.000 2501.630 4110.848 7642.015 6958.067 4287.255 5033.097 8160.751 952.441 5089.093 7608,369 8160.751 - - COOPING - -DRY- WET-BULB BULB TEMP TEMP 92.F 77.F 83.F 63.F 82.F 66.F 93.F 77.F 78.F 66.F 60.F 55.P 74.F 56.P 91.F 79.F 89.F 72.F 81.F 72.F TIME OF MAX DY HR 1 18 28 17 19 17 10 18 18 18 17 13 17 15 29 16 21 17 52 COOLING ENERGY (MBTU) 10.40430 371.69562 2518,70801 93.03175 1185.00354 3025.57031 0.0000.0 3310.42651 1972.80957 694.62097 217.91878 0.00000 TOTAL 13400.206 MONTH AUG MAY NO. Ę SEP ğ NOV DEC ΑÃ JAN PBB MAR APR

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19603 ENTECH ENGINEERING READING,

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

MONTH

JAN

PEB MAR APR

RZDOR - BLITE SOFTWARE DEVELOPMENT INC

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WEATHER FILE- BALTIMORE, MD

DOB-2.1D 8/10/1995 11:56:23 SDL RUN 1

MAXIMUM BLEC LOAD (KW) 1581.028 2207.408 1963.790 1360.231 1398.740 1775.343 1811.050 2244.603 2222.444 2143.444 1845.173 1405.524 2244.603 --- BIBC--929673. ELEC-TRICAL ENERGY (KWH) 1244364. 929378. 1123927. 928728. 840621. 941856. 938592. 1025622. 1220410. 1088996. 1018756. 12231591. -1150.482 -8714.624 MAXIMUM HEATING LOAD (KBTU/HR) 0.000 0.000 000.0 -4528.100 -10883.411 -10883.411 -10846.154 -6943.017 -5420.951 -3759.638 -5540.527 - - - - - HEATING - -25.F WET-BULB TEMP 26.F 30.F 31.F 4 · F 6.F 4.F 22.F 19.F 46.F 43.F 15.F 13.F 28.F 32.F 6.P 28.F 35.F DRY-BULB TEMP 7 TIME OF MAX DY HR 8 7 4 ~ 8 13 œ 9 17 30 s 11 28 23 71 -2872.135 -13.968 HEATING ENERGY (MBTU) -3644.374 0.000 0.000 -347.408 -1295.320 -1754.915 -172.234 0.000 -675.773 -13504.005 -2727.859 MAXIMUM COOLING LOAD (KBTU/HR) 2553.901 2444.933 5053.963 8367.409 14407.431 13619.016 13614.819 12181.978 8408.471 10760.764 1900,002 7287.734 14407.431 - - COOLING - -64.F 77.8 77.F WET-BULB TEMP 56.P 91.F 77.F 78.F 72.F 77.F 68.F 92.F 76.F 82.F 67.F 62.F 57.F 59.F 56.P 75.F 57.F 83.F 91.F DRY-BULB TEMP 62.F 93.F TIME OF MAX DY HR 19 14 2 11 28 14 9 13 16 29 14 19 13 17 9 18 18 17 2 14 14 28 13 COOLING ENERGY (MBTU) 33.93944 49.84756 235.70625 659.23621 1536.33984 3325.58276 4648.01465 4300.96143 2898.02759 1446.15845 497.43384 37.99460 ------TOTAL 19669.221

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DOR-2.1D 8/10/1995 11:56:23 SDL RUN 1 WEATHER FILE- BALTIMORE, MD EZDOE - ELITE SOFTWARE DEVELOPMENT INC 48_HEATON BNTECH ENGINEBRING REDOK - READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

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	:		0 J -	0 17	, g	t t t t t t t t t t t t t t t t t t t		1	H	NIT	י י ט		B L B	B C
	COOLITING	•	E W	יאמט	3 E	MAXIMUM	HRATING	Ė	THE	DRY-	WRT.	MAXIMUM	BLEC-	MAXIMUM
		9.5	OF MAX	BULB		LOAD	ENERGY	OF MAX	ž	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBIO)	ă	ž	AWS I		(KBIU/HK)	(MB10)	ĭ	Ä	TEM F	4 E	(NBIU/HK)	(KWH)	(KM)
JAN	8627.30176	15	w	13.F	11.F	11693.745	-24225.752	31	7	6.P	es es	-58789.977	4319428.	5805.631
PEB	7820.42871	28	15	62.F	55.7	12386.813	-19252.305	m	7	6.F	4 · F	-59869.523	3901419.	5805.631
MAR	7978.51904	7	9	65.7	62.F	23099.789	-14726.472	ß	4	22.F	19.F	-41758.391	4319428.	5805.631
APR	4892.73340	19	17	83.F	63.P	32021.797	-7254.164	0	7	29.F	25.P	-34681.801	4180095.	5805.631
MAY	8747.39160	28	17	78.F	69.F	40371.461	-2463.055	10	Ŋ	35.F	29.F	-26004.721	4319428.	5805.631
NO.	20795.54492	30	16	86.F	78.F	74764.172	-99.724	22	9	52.F	47.F	-7333.777	4180095.	5805.631
JUE	29877.50781	24	20	87.F	80.F	82739.453	-12.145	21	S	56.8	54.8	-3119.688	4319428.	5805.631
AUG	26858.78711	31	14	89.F	79.F	78237.719	-40.739	22	4	53.F	53.F	-6269.707	4319428.	5805.631
SRP	16304.99121	61	12	89.8	77.F	67770.242	-603.888	30	89	46.P	43.F	-13685,553	4180095.	5805.631
oc.	5556.35742	13	14	82.F	67.F	35515.574	-4287.764	28	80	32.F	31.F	-29529.379	4319428.	5805.631
NOV	8476.99023	7	14	82.F	73.F	52723.781	-12006.080	23	7	28.F	25.F	-35994.434	4180095.	5805.631
DBC	8641.05078	29	9	59.F	58.1	15177.600	-20908.521	21	7	15.8	13.F	-49338.922	4319428.	5805.631
TOTA	TOTAL 154577.203						-105880,695						50854012.	
MAX						82739.453						-59869.523		5805.631

DOR-2.1D 8/10/1995 11:56:23 SDL RUN 1 RZDOB - BLITE SOFTWARE DEVELOPMENT INC 48_ADMIN ENTECH ENGINERRING REDOR - READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

WEATHER FILE- BALTIMORE, MD

MAXIMUM ELEC LOAD (KW) 306.303 - - - B L B C - - -306.303 306.303 306,303 306.303 306,303 306.303 306.303 306.303 306.303 306.303 306.303 306.303 BLEC-TRICAL ENERGY (KWH) 220537. 227888. 227888. 205835. 227888. 220537. 227888. 220537. 227888. 227888. 220537. 227888. 2682954 MAXIMUM HEATING LOAD (KBTU/HR) 0.00 0.000 0.000 0.000 000.0 0.000 0.00 -36.344 0.000 0.000 0.00 -65.016 -65.016 S. 4 · F - - - - - - - H B A T I N G -WET-BULB TEMP DRY-BULB TEMP 6.F 6.F TIME OF MAX DY HR ^ 4 31 HEATING ENERGY (MBTU) -0.126 0.000 0.00 -0.759 -0.633 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 MAXIMUM COOLING LOAD (KBTU/HR) 843.858 1888.489 1783.525 1299.625 1086.225 1952.547 1925.568 1496.991 815.924 1952.547 779.105 1293.752 1412.813 - - - - - - COOLING - -92.F 76.F WET-BULB TEMP 59.F 56.F 62.F 56.F 75.F 57.F 83.F 63.F 82.F 66.F 86.F 78.F 96.F 80.F 90.F 79.F 82.F 67.F 82.F 73.F 59.F 58.P DRY-BULB TEMP 2 14 TIME OF MAX DY HR 9 13 16 16 21 17 30 16 25 14 15 14 14 29 15 N 28 13 COOLING ENERGY (MBTU) 662.79010 394.64178 281.10031 292.42172 408.53656 479.21790 863.52612 1004.94971 963.56244 775.51825 566.55206 272.36353 6965.189 TOTAL MONTH

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11:56:23 SDL RUN 1 ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 8/10/1995 11:56:45
READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48_MRAIR

898.569 MAXIMUM ELEC LOAD (KW) 898.569 898.569 898.569 898.569 898.569 898.569 898.569 898.569 898.569 898.569 898.569 - - BIBC - -BLEC-TRICAL ENERGY (KWH) 646966. 668532. 668532. 668532. 646966. 7871080. 603835. 668532. 646966 668532. 668532. 646966 668532. MAXIMUM HEATING LOAD (KBTU/HR) 0.000 0.000 -1392.277 0.00 0.000 -384.903 -2298.634 -770.544 -384.903 -384.903 -384.903 -2298.634 -2146.951 WET-BULB TEMP 4.F 19.F 42.F 39.F 40.F 38.F 16.F 14.F - - - - - - H B A T I N G -5.1 53.F 47.F 43.F 40.F DRY-BULB TEMP 22.F 6.F 6.P 4 18 24 17 23 22 7 24 TIME OF MAX DY HR 7 4 'n 2 s 33 -215.216 -141.093 0.000 -332.630 0.000 0.00 0.000 HEATING ENERGY (MBTU) -244.868 -38.298 -44.709 -1861.895 -478.229 -366.859 MAXIMUM COOLING. LOAD (KBTU/HR) 7504.082 4580,516 5486.116 2041.954 7862.192 3394.500 4220.854 4927.712 7372.304 7862.192 6713.118 1233.622 1810.585 WET-BULB TEMP 90.F 79.F 89.F 74.F 78.F 66.F 82.F 73.F 59.F 58.F - - - - - - C O O L I N G -59.F 52.F 62.F 56.F 74.F 56.P 64.F 62.F 82.F 66.P 92.F 77.F 91.F 79.F DRY-BULB TEMP 2 14 TIME OF MAX DY HR 7 17 29 6 18 31 15 8 22 91 13 21 21 17 10 18 13 17 28 16 25 COOLING ENERGY (MBTU) 1228.24951 3125.69873 294.57498 276.58139 394.60202 581.75903 2520.87134 3458.05664 1981.96521 689.28687 521,43433 303.95056 TOTAL 15377.148 MONTH Ę AUG SEP ပ် NOV DEC JAN PEB APR MAY Ę ÄX MAR

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DOE-2.1D 8/10/1995 11:56:23 SDL RUN 1 ENTECH ENGINBERING EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOR-2.1D 8/10/1995 11:56:23 SDL RUN 1 READING, PA 19603 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48_FITNESS HEATHER FILE- BALTIMORE, MD

D 8	MAXIMUM BLBC LOAD (KW)	97.131	97.131	ė7.131	97.131	97.131	97.131	97.131	97.131	97.131	97.131	97.131	97.131		97.131
R L R	ELEC- TRICAL ENERGY (KWH)	72266.	65273.	72266.	69935.	72266.	69935.	72266.	72266.	69935.	72266.	69935.	72266.	850825.	
	MAXIMUM HEATING LOAD (KBTU/HR)	-649.285	-588.718	-353.791	-261.897	-69.737	0.000	0.000	0.000	0.000	-128.504	-261.136	-481.764		-649.285
	WET- BULB TEMP	75 Fr	<b>4</b> . F	20.F	24.F	30.F					31.P	25.P	14 . F		
ATIN	DRY- BULB TEMP	ь. Э	6.8	23.F	29.F	36.P					32.F	28.F	16.P		
22	TIME MAX		7	9	80	7					œ	7	7		
1	TIME OF MAX DY HR	31	m	2	6	10					28	23	22		
1 1 1	HEATING ENERGY (MBTU)	-190.090	-131.617	-53.386	-12.698	-0.715	0.00	0.000	0.000	0.000	-1.953	-37.341	-141.644	-569.443	
:	MAXIMUM COOLING LOAD (XBTU/HR)	208.701	268.939	416.673	628.419	689.682	1136.559	1235.046	1125.594	1019.436	625.798	813.931	234,354		1235.046
5	WET- BULB TEMP	\$6.P	56.P	56.8	66.P	66.F	77.F	79.F	78.F	72.P	4.99	73.F	58.8		
COOLIN	DRY- BULB TEMP	¥.65	62.P	74.F	78.F	82.F	91.8	91.F	90.8	89.8	78.F	82.F	59.F		
0	TIMB MAX HR	13	16	16	14	11	11	18	16	18	11	14	9		
;	DY TO	ø	28	53	20	21	28	52	31	1	13	7	29		
1	COOLING ENERGY (MBTU)	51.39704	50.49187	82.14308	146,30630	233.67871	373.42697	470.28455	422.97275	333.34177	206.03949	104.83438	51.58225	2526.488	
	MONTH	JAN	FEB	MAR	APR	MAY	NO.	JOL	AUG	SEP	ocr	NOV	DBC	TOTAL	MAX

DOE-2.1D 8/10/1995 11:56:23 SDL RUN 1 RZDOR - BLITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING EZDOB READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

WEATHER FILE- BALTIMORE, MD

MAXIMUM BLEC LOAD (KW) 37.293 37.293 37.293 37.293 37.293 37.293 37.293 37.293 37.293 - - B L B C - - -37.293 37.293 37.293 37.293 ----ELEC-TRICAL ENERGY (KWH) 27746. 27746. 27746. 26851. 27746. 25061. 26851. 27746. 27746. 26851. ------27746. 26851. 326673. -486.553 MAXIMUM HEATING LOAD (XBTU/HR) 0.00 -283.595 -245.715 -24.176 -109.849 -332.863 -603.942 -595.930 -603.942 -327.398 -36.528 -401.397 WET-BULB TEMP 4.1 15.F 13.F - - - - - - - HEATING -4 · F 22.F 19.F 28.F 27.F 35.F 30.F 52.F 47.F 53.F 53.F 46.F 43.F 32.F 31.F 28.F 26.F DRY-BULB TEMP 6.F 6.P TIMB OF MAX DY HR ~ 4 19 13 :: 52 22 30 28 51 -2.645 -93.642 -181.246 HEATING ENERGY (MBTU) -16.736 -0.048 -30.903 0.000 -219.188 -119.506 -55.078 -0.157 -168.980 -888,131 MAXIMUM COOLING LOAD (KBTU/HR) 90.158 790.626 644.582 277.590 465.376 100.613 834.074 210.989 249.995 331.887 750.162 834.074 60.567 - - - - - - COOLING - -76.F WET-BULB TEMP 59.F 58.F 59.F 52.F 62.F 56.F 65.F 62.F 78.F 66.F 79.F 68.F 86.F 78.F 96.F 80.F 90.F 79.F 67.F 64.F 82.F 73.F 92.F DRY-BULB TEMP TIME OF MAX DY HR 2 14 9 29 6 8 22 28 16 20 14 26 17 30 17 25 14 31 15 2 17 COOLING ENERGY (MBTU) 13,53719 28.69227 167.32713 215.03352 14.86966 14.40490 18.27430 55.89507 245.47079 123.32504 42.06193 28.22661 967.163 MONTH TOTAL NOV DEC JAN PEB MAR APR MAY 5 Ę AUG SEP CT ΜĀ

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EZDOR - ELITE SOFTWARE DEVELOPMENT INC READING, PA 19603 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE ENTECH ENGINEERING

DOB-2.1D 8/10/1995 11:56:23 PDL RUN 1

NEFURL DEFO DOS ANTONIO DINGRAS FOREVORMENTE. WEATHER FILE- BALTIMORE, MD

						•				
FUEL-OIL		219405.65	0.00	0.00	00.00	00.00	00.00	00.00	0.00	
BLECTRICITY		00.00	88949.56	44790.03	00.0	00.00	149796.55	00.0	106362.27	
ENERGY TYPE IN SITE METU -	CATEGORY OF USB	SPACE HEAT	SPACE COOL	HVAC AUX	DOM HOT WIR	AUX SOLAR	LIGHTS	VERT TRANS	MISC RQUIP	

255.9 KBTU/SQFT-YR NET-ARRA 584.0 KBTU/SQFT-YR NET-AREA TOTAL SITE ENERGY 609310.80 MBTU 255.9 KBTU/SQFT-YR GROSS-AREA TOTAL SOURCE ENERGY 1390292.63 MBTU 584.0 KBTU/SQFT-YR GROSS-AREA

219405.65

389898.40

TOTAL

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 74.6 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 15.2

NOTE BLECTRICITY AND/OR FUEL USED TO GENERATE BLECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

EN REAL	ENTECH ENGINEERING READING, PA HOUREY-	GINEERING PA 19603 HOTHELY-REPORT	RZDOR -	RLITE SOPTWARE	RZDOR - ELITE SOPTWARE DEVELOPMENT INC	DOB-2.1D	8/10/1995	11:56:23	PDL RUN 1
ммррнн	OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR BLECTRIC USB BTU/HR	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR FAN ELBC BTU/HR	CBRANIC- TWR PUMP RLBC BTU/HR				
	( 1)	( 3)	(9)	(20)	(21)				
MONTHLY MN MX SM SM	SUMMARY (JAN) 1432321. 17025062. 10937115648. 14700424.	3248364. 6496725. 3449669632. 4636653.	1. 2. 1062.		400831. 801662. 425682624. 572154.				
MONTHLY MN MX SM SM	SUMMIARY (FEB) 14293720. 19357302. 9972993024. 14840763.	3248364. 6496727. 3686563072. 5485957.	1. 2. 1135. 2.	0. 301020. 600916. 894.	400831. 801662. 454943424. 676999.				
MONTHLY MN MX SM AV	MONTHLY SUMMARY (MAR) MN 3051135. MX 29583944. SM 10652548096. AV 14317941.	3248365. 6496726. 4138385920. 5562347.	1. 2. 1274. 2.	0. 439291. 636841. 8558.	400831. 801662. 510658912. 686370.				•
MONTHLY MN MX SM SM	SUMMARY (APR) 2942867. 30345800. 8054125056. 11186285.	3248370. 6496721. 3118652160. 4331462.	1. 2. 960. 1.	0. 639453. 32129928. 44625.	400831. 801662. 384797824. 534441.				
MONTHLY MN MX SM SM	SUMMARY (MAY) 3164102. 30345800. 12731153408. 17111766.	3248373. 6496385. 3599585280. 4838153.	1. 2. 1117. 2.	0. 863296, 155346864, 208800,	400831, 801662, 447728416, 601786,				
MONTHLY MN MX SM SM	SUMMARY (JUN) 5502061. 45518700. 23875368960. 33160234.	9406573. 10312154. 6969922560. 9680448.	3. 3. 2160. 3.	0. 1113640. 492209248. 683624.	1202494. 1202494. 865795328. 1202494.				
MONTHLY MN MX SM SM AV	SUMMARY (JUL) 6411499. 87686576. 33747425280. 45359444.	3248950. 22523696. 11311746048. 15203960.	3396. 5.	0. 1113640. 661083456. 888553.	400831. 2404987. 1360821888. 1829062.				

i	Ħ	ENGINEERING	SRING	· BODZB	- BLITE SOFTWA	EZDOR - BLITE SOFTWARE DEVELOPMENT INC	DOB-2.1D	8/10/1995	11:56:23 PDL RUN 1	PDL RUN 1
REP_2	REALDING,	HOURI	HOURLY-REPORT						PA	PAGE 2- 1
1 1 1 1 1 1 1	OPEN-CEN T-CHLR LOAD BTU/HR		OPEN-CEN T-CHLR BLECTRIC USE BTU/HR	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR FAN ELBC BTU/HR	CERAMIC- TWR PUMP BLEC BTU/HR	÷			
	( 1)		( 3)	(9)	(20)	(21)				
MONTHL) MN MX SM SM AV	MONTHLY SUMMARY (AUG) MN 5646301. MX 88564248. SM 32031647744. AV 43053288.		3249042. 22282480. 12118665216. 16288529.	1. 3689. 5.	0. 1113640. 659955456. 887037.	400831. 2404987. 1478666112. 1987455.				
MONTHE MN MX SM SM	MONTHLY SURWARY (SEP) MN 4281507. MX 45518700. SM 20046041088. AV 27841724.	SEP) 07. 00. 188.	9406573. 10514351. 6980566016, 9695231.	3. 3. 2160. 3.	0. 1113640. 388998464. 540276.	1202494. 1202494. 865795328. 1202494.				
MONTHLY MN MX SM SM AV	Y SUMMARY (OCT) 3011026. 44784216. 9570713600. 12863862.	OCT) 26. 116. 100.	6830854. 9793802. 7114900992. 9563039.	3. 2232. 3.	0. 988172. 111987400. 150521.	1202494. 1202494. 894655168. 1202494.				÷
MONTHL MIN MX SM SM	MONTHLY SUMMARY (NOV) MIN 3040564. MX 30345800. SM 10711128064. AV 14876567.	(NOV) 664. 100. 664.	3248364. 6496727. 3732124416. 5183506.	1. 2. 1151. 2.	0. 972711. 42380364. 58862.	400831. 801662. 461356608. 640773.				
MONTHL MN MX SM SM	MONTHLY SURMARY (DEC) MN 14270396. MX 21936440. SM 10958535680. AV 14729215.	(DEC) 196. 140. 580.	3248366. 6496727. 3231953664. 4344024.	1. 2. 995.	165917. 1859071. 2499.	400831. 801662. 398827040. 536058.				
YEARLY MIN MX SM SM AV	SUMMARY 2942867. 88564248. 193288798208. 22064932.		3248364. 22523696. 69452734464. 7928395.	1. 6. 21330. 2.	0. 1113640. 2552918016. 291429.	400831. 2404987. 8549728768. 975996.				

DOR-2.1D 8/10/1995 11:56:23 EDL RUN 1 RZDOR - ELITE SOFTWARE DEVELOPMENT INC READING, PA 19603 REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES ENTECH ENGINEERING

353853.66 TOTAL CHARGES (\$) 525971.38 550094.31 432455.06 382277.72 397104.56 370064.69 397206.94 446985.94 0.00 0.00 0.00 0.00 0.00 0.00 0.00 DEMAND CHARGE (\$) BILLING DEMAND (KW) 13286. 13065. 13141. 15461. 15159. 15433. 19079. 19326. 19384. 18914. 19004. 19239. 12403. 12299. 12299. 12351. 12337. 12493. 12722. 12674. 12876. 12942. 12758. 13060. 15098. 14917. 15253. 14355. 13974. 14444. MEASURED DEMAND (KW) 18914. 19004. 19239. 12722. 12674. 12876. 12942. 12758. 13060. 13286. 13065. 13141. 15461. 15159. 15433. 19079. 19326. 19384. 15098. 14917. 15253. 14355. 13974. 14444. 12351. 12337. 12493. 12403. 12299. 12299. 188858.67 89118.27 104300.79 174044.53 83013.84 96795.27 178093.77 101408.68 117602.13 184060.03 85308.20 100696.45 187253.73 95509.86 114443.34 174953.95 116131.91 155900.05 212870.39 133550.98 179550.02 193034.52 152298.16 204761.61 188951.30 103828.68 139675.08 185794.73 105973.77 142598.33 ENERGY CHARGE (\$) CONSUMPTION BY C-A (KWH) 4681343. 2076301. 2159308. 4452344. 2204536. 2218908. 4601501. 1854526. 1899933. 5145704. 2470892. 2514517. 6260894. 2841510. 2895968. 5677486. 3240386. 3302607. 5557391. 2209121. 2252824. 4721467. 1937354. 1967939. 4351113. 1804649. 1826326. 5464551. 2254761. 2299973. LENGTH (HR/MO) 392 176 176 368 176 176 400 160 160 400 160 160 424 160 160 376 184 184 408 168 168 368 152 152 376 184 184 408 168 168 CHARGE-ASSIGNMENT (U-NAME) OFF_PWIN INT_WIN ON_PWIN OFF_PWIN INT_WIN ON_PWIN OPF_PWIN INT_WIN ON_PWIN OFF_PWIN INT_WIN ON_PWIN OFF_FWIN INT_WIN ON_PWIN OFF_PSUM INT_SUM ON_PSUM OFF_PSUM INT_SUM ON_PSUM OFF_PSUM INT_SUM ON_PSUM OFF_PSUM INT_SUM ON_PSUM OFF_PSUM INT_SUM ON_PSUM 111111 MONTH Ę Ę AUG SEP ö JAN FEB æ APR MAY

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DOR-2.1D 8/10/1995 11:56:23 EDL RUN 1 ---CONTINUED-----377311.53 TOTAL CHARGES (\$) 377889.03 0.00 DEMAND CHARGE (\$) 0.00 BILLING DEMAND (KW) 12526. 12372. 12422. 13152. 13352. 13363. MEASURED DEMAND (KW) BZDOB - ELITE SOFTWARE DEVELOPMENT INC 12526. 12372. 12422. 13152. 13352. 13363. 195110.75 83749.57 98451.23 189078.91 86958.85 101851.29 RNERGY CHARGE (\$) 5045581.50 4726973. 1890410. · 1921722. CONSUMPTION BY C-A (KWH) 4877769. 1820643. 1857570. 114241104. ...... ENTECH ENGINEBRING BZDOE READING, PA 19603
REPORT- ES-B SUMMARY OF ELECTRICITY CHARGES LENGTH (HR/MO) 424 160 160 400 160 160 CHARGE-ASSIGNMENT (U-NAME) OFF_PWIN INT_WIN ON_PWIN OFF_PWIN INT_WIN ON_PWIN MONTH ...... TOTAL NOV DEC

UNECUPIED

CONTROL

BLOGS

1,7,11,40,+41

DOE-2.1D 8/ 4/1995 16:16:51 SDL RUN 1 WEATHER FILE- BALTIMORE, MD

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC READING, PA 19603 REPORT- SS-D PLANT MONTHLY LOADS SUMMARY FOR DEFAULT-PLANT

HEATING TIME IN ENERGY OF MAX IN (MBTU) DY HR
-39585.785 31
-30852.945 3
-22291.625 5
-10395.026 8
-3265.857 10
-100.418 22
-12.161 21
-41.127 22
-685.674 30
-5904.281 28
-17905.180 23
-33417.570 21
-164457.516

DOE-2.1D 8/ 4/1995 16:16:51 SDL RUN 1 WEATHER FILE- BALTIMORE, MD EZDOE - ELITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING EZDOE READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

252,620 MAXIMUM ELEC LOAD (KW) 247,017 261,104 275.598 190.707 197.154 215,222 310.246 309.674 303.931 310.892 310,892 187,979 --ELEC--130260. 131661. 130130. ELEC-TRICAL ENERGY (KWH) 117852. 131818. 148320. 130290. 164987. 182126. 177618. 141727. 157030. 1743818, -935,612 MAXIMUM HEATING LOAD (KBTU/HR) -1310.004 0.000 0.000 -2.699 -1576.211 -502.709 -0.001 -933.870 -1546.491 -1130.179 -555,006 -1576.211 WET-BULB TEMP 6.F 50.F 46.F 32.F 31.F 28.F 25.F 16.F 14.F 29.F 25.F 6.F 4.F 23.F 20.F 36.F 30.F 78.F 61.F --HEATING -DRY-BULB TEMP 18 23 TIME OF MAX DY HR 15 S 6 10 53 28 23 22 -259,948 -11.018 -36,201 -4.848 0.000 -88.141 HEATING ENERGY (MBTU) 0.000 0.000 -0.005 -243.825 -116.974 -1098,928 -337.968 MAXIMUM COOLING LOAD (KBTU/HR) 355.838 260.569 1080,571 1419,922 602.423 1036.906 1197.417 1882.791 1834,539 1847,189 1723.081 216,552 1882.791 WET-BULB TEMP 56.F 56.F 66.F 66.F 77.F 80.F 79.F 77.E 66.F 59.F 56.F 82.F 73.F 59.F 58.F 62.F 78.F 82.F 91,F 90.F 89.F 74.F 89.F 82.F DRY-BULB TEMP 28 16 TIME OF MAX DY HR 29 16 20 14 11 14 12 16 2 14 9 21 17 28 17 9 13 25 ~ 13 1.00031 COOLING ENERGY (MBTU) 4.18165 91.18903 579,68933 471.76221 182,82260 1.55180 26,59831 285.75220 765,69666 703.44177 64.58344 3178.269 TOTAL MONTH DEC APR MAY JUN JUL AUG SEP OCT NOV

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DOE-2.1D 8/ 4/1995 16:16:51 SDL RUN 1 ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 8/ 4/1995 16:16:51 SDL RUN 1
READING, PA 1963
NAT110ADS SUMMARY FOR 48 GENERAL WEATHER FILE- BALTIMORE, MD E2DOE - ELITE SOFTWARE DEVELOPMENT INC

D A	MAXIMUM ELEC LOAD (KW)	658.443	658.443	658.443	658.443	658.443	658.443	658.443	658.443	658.443	658.443	658.443	658,443		658,443
1 1 1	ELEC- TRICAL ENERGY (KWH)	489879.	442471.	489879.	474076.	489879.	474076.	489879.	489879.	474076.	489879.	474076.	489879.	5768362.	
1 1 1 1	MAXIMUM HEATING LOAD (KBTU/HR)	-13699,482	-13892.849	-9144.771	-7414.337	-5349.235	-257,330	000*9-	-98.079	-2165.799	-6301.521	-7548.288	-11146.239		-13892,849
G -	WET- BULB TEMP	5.F	4 · F	19.E	26.F	29.F	47.F	68.F	53.F	43.F	31.F	25.F	13.F		
ATIN	DRY- BULB TEMP	6. F	6 . F	22.F	28.F	35.F	52.F	68.F	53.F	46.F	32.F	28.F	15.F		
H E 7	H X H	,	7	4	œ	S	9	-	4	80	œ	7	7		
1	TIME OF MAX DY HR	31	ო	2	8	10	22	18	22	30	28	23	21		
1 1 1 1 1 1 1	HEATING ENERGY (MBTU)	-4981,119	-3808.562	-2610.200	-1140.072	-316.100	-0.297	-0.011	-0.184	-38.372	-613.819	-2041,868	-4097.769	-19648,348	
1 1 1 1 1	MAXIMUM COOLING LOAD (KBTU/HR)	1560.025	2374.213	5808,886	5590.978	9240,319	17951.648	20306.863	18743.852	15399.860	8116.458	12659.014	2519.949		20306.863
1 5 N	WET- BULB TEMP	52.F	56.F	57.F	61,F	67.F	77.F	80.F	79.F	76.F	63.F	71.F	58.F		
0 1 1	DRY- BULB TEMP	59.F	62.F	75.F	74.F	70.F	91.F	96.F	90.F	92.F	74.F	72.F	59.F		
0	ME HR	22	16	15	11	11	11	14	12	14	11	10	9		
1	TIME OF MAX DY HR	80	28	59	13	56	88	25	31	7	7	1	29		
1 1 1 1 1 1	COOLING ENERGY (MBTU)	384.42691	361.94824	511.68246	764.88245	1170,97815	2742.59399	4067.98926	3496,61743	2092,70850	1111.33569	621.37177	394.64340	17721.480	
	MONTH	JAN	FEB	MAR	APR	MAY	NOC	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MAX

DOE-2.1D 8/ 4/1995 16:16:51 SDL RUN 1 EZDOE - ELITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELORY
READING, PA NOVTHLY LOADS SUMMARY FOR 49_DEABGU

WEATHER FILE- BALTIMORE, MD

•	MAXIMUM ELEC LOAD (KW)	650,169	694.796	1807.787	963.876	1037.827	1249,368	1280.544	1263.353	1229.895	962.775	1003.534	650.169		1280,544
LEC-	MAX	920	69	80,	96	103	124	128(	126	122	96	100	92		128
	ELEC- TRICAL ENERGY (KWH)	413270.	373528.	416551.	415154.	475802.	551462.	615923.	596191,	514570.	446814.	411651.	413270.	5644044.	
1 1 1 1	MAXIMUM HEATING LOAD (KBTU/HR)	-8559.861	-8236,667	-6262.863	-5407.557	-3778.747	-36,184	0.000	-50.010	-620.695	-3990,768	-5478.437	-7147.256		-8559,861
1 C N	WET- BULB TEMP	ري ب	4 . F	20.F	25.F	30.F	52.F		53.F	43.F	31.F	25.F	14.E		
ATIN	DRY- BULB TEMP	. n	6.F	23.F	29.F	36.F	54.F		53.F	46.F	32.F	28.F	16.F		
H	H XX E	~	7	9	7	7	4		т	œ	œ	7	7		
,	TIME OF MAX DY HR	31	e	S	σ	10	11		22	30	28	23	22		
1 1 1 1	HEATING ENERGY (MBTU)	-2253.873	-1675.140	-975.661	-397.741	-70.297	-0.145	0.000	-0.153	-3.505	-176.968	-848.563	-1907.827	-8309.871	
1 1 1 1 1	MAXIMUM COOLING LOAD (KBTU/HR)	0.000	735,918	2305.409	4306.261	5375.751	7911.192	8202.170	7965.785	7245.698	4546.829	5437.345	0.000		8202,170
1 5 2	WET- BULB TEMP		55.F	56.F	63.F	66.F	77.F	79.F	77.F	74.F	66.F	72.F			
0 1. 1	DRY- BULB TEMP		60.F	74.F	83.F	82.F	91.F	94.F	93.F	89.F	78.F	81.F			
0	TIME MAX		11	16	11	11	11	11	17	11	11	12			
1	OF P		28	59	19	21	28	25	18	7	13	7			
1 1 1 1	COOLING ENERGY (MBTU)	0.00000	4.10562	52.30265	233,35985	958.02203	2193.18042	2931,59204	2652.57520	1693.65442	508.32101	176.73238	0.00000	11403,850	
	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MAX

DOE-2.1D 8/4/1995 16:16:51 SDL RUN 1 WEATHER FILE- BALTIMORE, MD EZDOE - ELITE SOFTWARE DEVELOPMENT INC 54_AFIPSP ENTECH ENGINEERING EZDOE READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

MAXIMUM ELEC LOAD (KW) 2244.603 2207.408 1405.524 2244,603 1398,740 1581.028 1775.343 1811.050 2222.444 2143.444 1845.173 1963.790 1360.231 --ELEC--929673. 938592. ELEC-TRICAL ENERGY (KWH) 1123927. 929378. 840621. 941856. 1025622. 1244364. 1220410. 1088996. 1018756. 928728. 12231591. MAXIMUM HEATING LOAD (KBTU/HR) 0.000 -8714.624 0.000 0.000 -10883.411 -10846.154 -6943.017 -3759,638 -1150.482 -4528.100 -5540.527 -10883.411 -5420,951 4 · F 46.F 43.F 32.F 31.F 28.F 25.F 15.F 13.F WET-BULB TEMP 6.F 4.F 22.F 19.F 28.F 26.F 35.F 30.F --HEATING-6.F DRY-BULB TEMP TIME OF MAX DY HR 17 19 21 28 23 30 -2872.135 HEATING ENERGY (MBTU) 0.000 -675.773 0.000 -13,968 -1295.320 -2727.859 -1754.915 -172,234 -347.408 -13504,005 -3644.374 0.000 MAXIMUM COOLING LOAD (KBTU/HR) 8408.471 2553.901 13619.016 1900,002 2444.933 5053,963 7287.734 8367,409 14407.431 13614.819 12181.978 10760.764 14407.431 57.F 64.F 68.F 77.F 77.F 77.E 76.F 67.F 72.F 56.F 56.F 62.F 57.F WET-BULB TEMP -----C00 LIN G 75.F 59.F 62.F 83.F 77.F 91.F 91.F 93.F 92.F 82.F 78.F DRY-BULB TEMP TIME OF MAX DY HR 18 17 29 14 14 14 11 14 9 13 28 16 19 14 19 13 28 17 18 13 COOLING ENERGY (MBTU) 49.84756 659,23621 1536,33984 3325.58276 4300.96143 1446.15845 37.99460 33,93944 235.70625 4648.01465 2898,02759 497.43384 TOTAL 19669,221 MONTH

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EZDOE - ELITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING EZDOE READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

WEATHER FILE- BALTIMORE, MD DOE-2.1D 8/ 4/1995 48 HEATON

16:16:51 SDL RUN 1

MAXIMUM ELEC LOAD (KW) 5805.631 5805,631 5805.631 5805.631 5805,631 5805.631 5805,631 5805,631 5805.631 5805,631 5805,631 5805,631 5805.631 - - E L E C - -4319428. ELEC-TRICAL ENERGY (KWH) 4319428. 4319428. 4319428. 4319428. 4180095. 4319428. 3901419. 4319428. 4180095. 4180095. 4180095. 50854012. MAXIMUM HEATING LOAD (KBTU/HR) -49338.922 -58789.977 -59869.523 -41758.391 -34681.801 -26004.721 -7333.777 -3119.688 -6269.707 -13685.553 -29529.379 -35994.434 -59869,523 4 · F 53.F WET-BULB TEMP 22.F 19.F 29.F 25.F 35.F 29.F 52.F 47.F 56.F 54.F 46.F 43.F 15.F 13.F ---HEATING 6.F 53.F 32.F DRY-BULB TEMP 2 TIME OF MAX DY HR 9 10 22 21 30 22 23 -20908.521 -99.724 HEATING ENERGY (MBTU) -2463.055 -40.739 -24225.752 -19252,305 -7254.164 -12.145 -603,888 -4287.764 -12006.080 -14726.472 -105880.695 MAXIMUM COOLING LOAD (KBTU/HR) 15177.600 11693.745 82739.453 67770.242 35515.574 52723.781 12386.813 23099.789 32021.797 40371.461 74764.172 78237.719 82739.453 55.F 62.F 89.F 77.F 82.F 67.F 82.F 73.F - - - - - - COOLING -WET-BULB TEMP 13.F 11.F 83.F 63.F 78.F 69.F 86.F 78.F 87.F 80.F 89.F 79.F 59.F 58.F 62.F 65.F DRY-BULB TEMP 15 5 9 20 14 12 14 14 TIME OF MAX DY HR 28 15 19 17 28 17 30 16 24 31 COOLING ENERGY (MBTU) 8627,30176 4892.73340 8747.39160 20795.54492 29877,50781 26858.78711 8641.05078 7820,42871 7978.51904 16304.99121 5556.35742 8476.99023 TOTAL 154577.203 MONTH APR MAY JUN JOL AUG SEP OCT NOV FEB MAR MAX **F** 

DOE-2.1D 8/ 4/1995 16:16:51 SDL RUN 1 EZDOE - ELITE SOFTWARE DEVELOPMENT INC 48 ADMIN ENTECH ENGINEERING E2DOE READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

WEATHER FILE- BALTIMORE, MD

MAXIMUM ELEC LOAD (KW) 306,303 306,303 306.303 306.303 306.303 306,303 306,303 306.303 306,303 306,303 306,303 --- ELEC ---306,303 306,303 227888. 220537. 220537. 227888. 227888. 220537. 227888. 227888. ELEC-TRICAL ENERGY (KWH) 205835. 227888. 227888. 220537. MAXIMUM HEATING LOAD (KBTU/HR) 0000 000.0 0.000 000.0 0.000 -65.016 0.000 0.000 0000.0 0.000 0000.0 -65.016 -36.344 WET-BULB TEMP 5.5 4 --HEATING-6.F 6.F DRY-BULB TEMP TIME OF MAX DY HR 7 31 -0.126 0.000 HEATING ENERGY (MBTU) -0.633 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 -0.759 MAXIMUM COOLING LOAD (KBTU/HR) 815.924 779.105 843.858 1412.813 1952.547 1086.225 1293.752 1925.568 1783.525 1299.625 1888.489 1496.991 1952.547 62.F 56.F WET-BULB TEMP 57.F 63.F 66.F 78.F 80.F 59.F 56.F 90.F 79.F 82.F 67.F 82.F 73.F 59.F 58.F 92.F 76.F ---COOLING 75.F 83.F 82.F 86.F 96.₽ DRY-BULB TEMP 19 16 TIME OF MAX DY HR 9 13 30 16 25 14 31 15 2 14 13 14 2 14 15 21 17 28 16 59 53 272,36353 COOLING ENERGY (MBTU) 566,55206 479.21790 662,79010 863.52612 963.56244 775.51825 281.10031 292.42172 408.53656 1004.94971 394.64178 6965.189 TOTAL MONTH JUN JOL AUG OCT NOV MAX APR SEP

EZDOE - ELITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING EZDOE READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

48 WRAIR

WEATHER FILE- BALTIMORE, MD

DOE-2.1D 8/ 4/1995 16:16:51 SDL RUN 1

898.569 MAXIMUM ELEC LOAD (KW) 898,569 898,569 898.569 898.569 898.569 898.569 898.569 898.569 898.569 898,569 898.569 898.569 - - E L E C - -ELEC-TRICAL ENERGY (KWH) 668532. 668532. 646966. 668532. 668532. 646966. 668532. 668532. 646966. 603835. 646966. 668532. 7871080. MAXIMUM HEATING LOAD (KBTU/HR) -8452.755 -2.680 -10409.997 -10575.047 -6913.070 -5571,383 -4016.310 -87,061 -3.254 -1511.002 -4738.718 -5674.818 -10575.047 4 · F WET-BULB TEMP 28.F 26.F 35.F 30.F 7 15.F 13.F 6.F 4.F 65.F 64.F 66.F 65.F 46.F 43.F 32.F 31.F 28.F 25.F 22.F 19.F 52.F 47.F -----HEATING 6.F DRY-BULB TEMP ~ TIME OF MAX DY HR 17 19 11 31 8 30 22 28 23 -3048.474 -0.006 HEATING ENERGY (MBTU) -222,216 -0.003 -23.290 -434.500 -1494.679 -3732.795 -2844,543 -823.302 -0.093 -1934.514 -14558.429 2083.525 MAXIMUM COOLING LOAD (KBTU/HR) 6871.916 14474.282 1355.893 1956.609 5355.463 5376.899 15946.209 15143,452 13150.514 7263.270 9740.532 15946.209 58.F 52.F 56.F 62.F 66.F 69.F 78.F 80.F 79.F 89.F 77.F WET-BULB TEMP 65.F 82.F 73.F -----COOLING 59.F 78.F 86.F 96.F 89.F 70.F 59.F 62.F 65.F 78.F DRY-BULB TEMP 2 12 14 14 15 14 TIME OF MAX DY HR 22 16 14 17 16 25 31 œ 20 28 30 30 307,34085 COOLING ENERGY (MBTU) 300,06345 283.12122 493.55014 887.08594 2597.07520 4170,10303 3577,51294 1997.57361 671.49591 533,64032 TOTAL 16196.079 377.38864 MONTH

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EZDOE - ELITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING EZDOE READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

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WEATHER FILE- BALTIMORE, MD

DOE-2.1D 8/ 4/1995 16:16:51 SDL RUN 1

MAXIMUM ELEC LOAD (KW) 97.131 97.131 97.131 97.131 97.131 97.131 97.131 97.131 97.131 97.131 97.131 97,131 97.131 --ELEC---72266. ELEC-TRICAL ENERGY (KWH) 72266. 65273. 72266. 69935. 72266. 69935. 72266. 72266. 69935. 72266. 69935. 850825. MAXIMUM HEATING LOAD (KBTU/HR) 000.0 -481.764 -649,285 -588.718 -261.897 -2.082 -0.159 -0.565 -261,136 -39,552 -649.285 -353.791 -128.504 WET-BULB TEMP 4.F 23.F 20.F 29.F 24.F 60.F 52.F 38.F 33.F 59.F 53.F 63.F 62.F 32.F 31.F 28.F 25.F 16.F 14.F --HEATING 6.F 6.F DRY-BULB TEMP 8 9 TIME OF MAX DY HR 12 22 21 22 23 22 31 11 20 18 28 -141.644 HEATING ENERGY (MBTU) -12,697 -0.372 -0.001 -1.901 -36,876 -131,617 -0.002 000.0 000.0 -568.585 -190.090 -53.386 MAXIMUM COOLING LOAD (KBTU/HR) 815,720 234.354 208.701 268,939 416.673 629.285 752.971 695,952 1176.982 1271.283 1179.467 1050.441 1271.283 56.F 77.F 79.E 79.F 72.F 72.F 58.F WET-BULB TEMP 56.F 56.F 63.F 66.F 78.F 66.F ----------91.F 90.F 77.F 59.F 62.F 83.F 82.F 94.F 94.F 74.F DRY-BULB TEMP TIME OF MAX DY HR 9 13 19 17 16 11 31 15 11 14 16 13 17 21 17 28 17 25 28 59 59 COOLING ENERGY (MBTU) 51,39704 50.49187 360.54605 228,08095 84,58237 51.58225 126.46930 171.50642 292.58224 164.59122 82.14308 409,46167 2073.421 TOTAL MONTH

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EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 8/ 4/1995 16:16:51 SDL RUN 1 WEATHER FILE- BALTIMORE, MD ENTECH ENGINEERING EZDOE READING, PA 1963
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

MAXIMUM ELEC LOAD (KW) 37.293 37.293 37.293 37.293 37.293 37.293 37.293 37.293 37,293 37.293 37,293 37.293 37.293 26851. 26851. 27746. ELEC-TRICAL ENERGY (KWH) 27746. 26851. 27746. 27746. 27746. 26851. 27746. 27746. 25061. 326673. 0.000 -486.553 MAXIMUM HEATING LOAD (KBTU/HR) -36.528 -595,930 -401,397 -327.398 -245.715 -24.176 -109.849 -283.595 -603.942 -332,863 -603.942 28.F 27.F 35.F 30.F 53.F 53.F 46.F 43.F 32.F 31.F WET-BULB TEMP 52.F 47.F 28.F 26.F 15.F 13.F 22.F 19.F --HEATING 6.F 6.F DRY-BULB TEMP 9 TIME OF MAX DY HR 17 19 8 21 30 28 11 22 22 -181.246 HEATING ENERGY (MBTU) -0.048 -219.188 0.000 -168,980 -119.506 -16.736 -0.157 -2.645 -30,903 -93,642 -55.078 -888.131 100.613 MAXIMUM COOLING LOAD (KBTU/HR) 750.162 834.074 644.582 277.590 60.567 90,158 210,989 249.995 331,887 465.376 790,626 834.074 78.F 73.F 58.F WET-BULB TEMP 56.F 62.F 66.F 68.F 67.F 64.F 96.F 80.F 90.F 79.F 92.F 76.F ------COOLING-82.F 86.5 59.F 65.F 78.F 79.F 62.F DRY-BULB TEMP 28 16 14 TIME OF MAX DY HR 9 20 14 30 17 25 14 31 15 2 14 2 17 26 17 14.86966 28.69227 55.89507 167.32713 245,47079 215.03352 123.32504 42.06193 28.22661 14.40490 13.53719 18.27430 967.163 TOTAL MONTH OCT NOV MAX APR NDS JUL AUG SEP MAY

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EZDOE - ELITE SOPTWARE DEVELOPMENT INC ENTECH ENGINEERING EZDOB - ELITE READING, PA 19603
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE

WEATHER FILE- BALTIMORE, MD

DOR-2.1D 8/ 4/1995 16:16:51 PDL RUN 1

FUEL-OIL		253493.28	00.00	00.00	00.00	0.00	0.00	0.00	0.00	253493.28
BLECTRICITY		00.0	89044.78	44789.71	0.00	0.00	149795.50	0.00	106361.53	389991.50
ENERGY TYPE IN SITE MBTU -	CATEGORY OF USE	SPACE HEAT	SPACE COOL	HVAC AUX	DOM HOT WTR	AUX SOLAR	LIGHTS	VERT TRANS	MISC BOUIP	TOTAL

270.3 KBTU/SQFT-YR NET-AREA 598.4 KBTU/SQFT-YR NET-AREA 270.3 KBTU/SQFT-YR GROSS-ARBA 598.4 KBTU/SQFT-YR GROSS-ARBA TOTAL SITE BNERGY 643493.46 MBTU TOTAL SOURCE ENERGY 1424665.35 MBTU

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 73.6 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 15.5

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

2.1D 8/ 4/1995 16:16:51 PDL RUN 1 PAGE 1-	_							
DEVELOPMENT INC DOE-2.1D	CERAMIC- TWR PUMP RLEC BTU/HR	(21)	400831. 801662. 43510456. 586162.	400831. 801662. 461356704. 686543.	400831. 801662. 521080544. 700377.	400831. 801662. 381591168. 529988.		400831. 801662. 445724256. 599092.
EZDOE - ELITE SOFTWARE DEVELOPMENT INC	CERAMIC- TWR FAN BLIRC BTU/HR	(20)		0. 302401. 604040. 899.	439259. 6405217. 8609.	0. 639224. 29637776. 41164.		0. 863296. 146561344. 196991.
EZDOE - E	OPEN-CEN T-CHLR SIZES RUNNING	(9)	1. 2. 1088. 1.	1. 2. 1151. 2.	1. 2. 1300. 2.	1. 2. 952. 1.		1. 2. 1112. 1.
INEBRING PA 19603 HOURLY-REPORT	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	( 3)	3252053. 6504104. 3538115584. 4755532.	3252053. 6504105. 3742786560. 5569623.	3252053. 6504104. 4227559424. 5682204.	3252054. 6504082. 3096463360. 4300644.	-	3252128. 6504103. 3591726592. 4827590.
BNG	OPEN-CEN T-CHLR LOAD BTU/HR	( 1)	MONTHLY SUMMARY (JAN) MN 14323141. MX 17254616. SM 10945137664. AV 14711207.	SUMMARY (FEB) 14360108. 19629962. 9983905792. 14857003.	SUMMARY (MAR) 3051075. 29571134. 10662998016. 14331987.	SUMMARY (APR) 3122064. 30083156. 8001062912. 11112587.	SUMMARY (MAY)	3163950. 30345800. 12356529152. 16608238.
ENTECH READING, REP_2	миронн		MONTHLY MN MX SM SM	MONTHLY MN MX SM SM AV	MONTHLY MN MX SM SM AV	MONTHLY MN MX SM SM AV	MONTHLY	MX XX AV

REAL	READING, PA	PA 19603			ELUCIA DELLE SOCIARIO ELUCIONISTI INC	CCCT /t /o CT: 7-900	TO: TO: TO: TO: TO: TO: TO: TO: TO: TO:
1	OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR FAN ELBC BTU/HR	CERAMIC- TUR PUMP BLBC BTU/HR	CERAMIC- TWR TWP BLBC BTU/HR	
	(1)	( 3)	(9)	(20)	(21)		
ONTHLY MN MX SM AV	MONTHLY SUMMARY (AUG) MN 5735534. MX 89214016. SM 32491151360. AV 43670904.	3253306. 22282284. 12207679488. 16408171.	1. 6. 3691. 5.	0. 1113640. 657135232. 883246.	400831. 2404987. 1479467776. 1988532.		
ONTHLY MN MX SM SM AV	MONTHLY SUMMARY (SEP) MN 4740642. MX 45518700. SM 19415207936. AV 26965566.	9406573. 10686763. 6992815616. 9712244.	3. 3. 2160. 3.	0. 1113640. 382525568. 531286.	1202494. 1202494. 865795328. 1202494.		
MONTHLY MN MX SM SM	( SUMMARY (OCT) 3010958. 44596404. 9398846464. 12632858.	6832337. 9797366. 7163420160. 9628253.	3. 3. 2232. 3.	0. 987628. 105327392. 141569.	1202494. 1202494. 894655168. 1202494.		
MONTHLY MN MX SM SM AV	K SUMMARY (NOV) 3040506. 30345800. 10698957824. 14859664.	3252054. 6504103. 3854114560. 5352937.	1. 2. 1187. 2.	0. 972711. 42307932. 58761.	400831. 801662. 475786528. 660815.		
MONTHLY MN MX SM SM AV	Y SUMMARY (DEC) 14270317. 22659844. 10968299520. 14742338.	3252053. 6504105. 3316909056. 4458211.	1. 2. 1020. 1.	319752. 2767931. 3720.	400831. 801662. 408847840. 549527.		
YEARLY MIN MX SM SM AV	SUMMARY 3010958. 89214016. 192268976128. 21948514.	3252053. 22523626. 70079692800. 7999965.	1. 6. 21449. 2.	0. 1113640. 2513765376. 286960.	400831. 2404987. 8597427200. 981441.		

DOE-2.1D 8/ 4/1995 16:16:51 EDL RUN 1 EZDOE - BLITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING EZDOR READING, PA 19603
REBORT- ES-ES SUMMARY OF ELECTRICITY CHARGES

TOTAL	CHARGES (\$)		0	2 9	383524.97	0 :	2 5	354617.97	00	9 9	398189.84	00	00		369221.25	00	00		396225.13	00	00		44584U.63	00	00	525364.63		00	000	549855.25	00	00	431590.63		00	3 (	00
	CHARGE (\$)			00.0			0.00			0.00			00.00				00.00				00.00				00.00				0.00		0.00				0.00		
 ED BILLING		:		1. 12301.			3. 12333. 2 12482			1. 12391.				3. 13093.				9. 13149.				2. 15452.			7. 19157.				7. 18847.			9. 14779.					10 14480.
 Y MEASURED		***************************************		1.09 12301.			1.52 12333.			1.70 12391.				3.08 13093.				9.09 13149.				2.23 15452.				7.73 19390.			3.98 18847.			1.57 14779.			8.58 14378.		0.42 14480.
TION ENERGY			 -	41. 89573.09			89. 83121.52 84 96957 33			12 117591 72		-		86. 100413.08			15. 95119.48					88. 155402.23			111. 133598.02				152363.98			116. 103701.57					158. 142380.42
S	TH BY C-A			168 1947241.			1806989			184 2212841. 184 2218712				160 1894586		392 4667914.		176 2158285.			176 2466925	76 2506488			160 2842511				184 3241787.			160 2206416. 160 2247274			408 5468782.	77677	68 2296458.
	NT LENGTH (HR/MO)			168	1		152																														
	MONTH ASSIGNMENT (U-NAME)		OFF_PWIN	NIM TAI	NITH A	OFF PWIN	NIM INI	-	OFF PWIN	NIW INI	l	OFF PWIN	NIW LAIN	NIMA_NO		NIW4_940	NIM TNI	ON PWIN		OFF PSUM	INT_SUM	MUS4_NO		OFF_PSUM	INT SUM	NO PSO	AUG	OFF PSUM	MUS_TNI	1000	MUSA TANA	MIND NO		ocr	OPP PSUM	MINI SOM	ON PSUM

SDL RUN 1		,	
16:16:51 EDL	TOTAL CHARGES (\$)	379487.16	5046645.00
DOB-2.1D 8/4/1995	DEMAND CHARGE (\$)	00.0	00.00
DOR-2.1D	BILLING DEMAND (KW)	13252. 13410. 13402. 12532. 12532. 12420.	
OPMENT INC	MEASURED DEMAND (KW)	13252. 13410. 13402. 12532. 12367.	
EZDOE - ELITE SOFTWARE DEVELOPMENT INC RGES	ENERGY CHARGE (\$)	189929.59 87395.90 102161.66 195680.02 84102.95	5046645.00
EZDOE - ELITE	CONSUMPTION BY C-A (KWH)	4748240. 1899911. 1927578. 4892250. 1828325.	114269136.
19603 JECTRICITY C	LENGTH (HR/MO)	400 160 160 160 160	
ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 8/4/1995 16:16:51 EDL RUN 1 REPORT - ES - SUMMARY OF ELECTRICITY CHARGES	CHARGE- ASSIGNMENT (U-NAME)	OFP_PWIN INT_WIN ON_PWIN OPP_PWIN INT_WIN	
ENTEC READING, REPORT- ES-E	MONTH	NOV	TOTAL

ACT # 10 lebulance Preheat Coils Blds 2

Tayau O'A

PA	ENIECH ENGINEERING	19603		EZDOE - ELITE SOFTWARE DEVELOPMENT INC	DEVELOPMENT 1	N.		DOK-2.1D		8/4/1995 15	15:26:26 SDL RUN	1
LANT	ONTHI	LY LOADS	REPORT - SS-D PLANT MONTHLY LOADS SUMMARY FOR	FOR	DEFAULT-PLANT	ANT			1	WEATHER FILE- BALTIMORE,	BALTIMORE, MD	Q
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	TIME		WET-	COOLING	HEATING	TIMB			WET-	HEATING	TRICAL	ELEC
			BULB	COAD	ENERGY	OF MAX			BULB	LOAD	ENERGY	COAD
(MBTU) DY	X HK	TEMP	TEMP	(KBTU/HR)	(MBTC)	DY HR		TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
2769.21216 9	9 13	59.8	56.F	12952.115	-32207.732	31	7	9 . P	5.18	-93157.844	7278727.	9980,636
2661.63037 28	91 8	62.P	56.P	17884.287	-24182.078	ъ	7	6.F	4 · F	-93940.977	6576452.	10071.413
3774.61108 1	1 6	65.F	62.F	33899,043	-15713.634	w	4	22.F	19.F	-60370.637	7299177.	10366.349
5889.34814 20	0 14	78.F	4. 99	41744.570	-6264.929	80	60	28.F	26.F	-48358.297	7114297.	10516.551
12652.85352 28	8 15	75.F	4.69	55868.117	-1582.772	10	S.	35.P	29.F	-33252.438	7472921.	10739.647
29252.11328 28	8 17	91.F	77.F	110073.688	-0.731	22	v	52.F	47.F	-489.786	7485145.	11583.874
41870.07031 25	5 14	96.P	80.F	121665.469	-0.004	7	ທ	64.F	63.F	-3.668	7878816.	11556.280
37630.75391 31	1 15	90.F	79.F	114928.344	-0.383	22	4	53.F	53.F	-199.495	7830316.	11581.631
22926.16602 2	2 12	89.F	T. 77	97778.563	-134.863	30		46.F	43.F	-10635.139	7400522.	11453.542
8593,81445 13	3 16	82.F	4.99	43376.223	-3209.553	28	ω	32.F	31.F	-40121.332	7427052.	10744.286
5770.98682	2 14	82.F	73.F	71327.648	-12064.698	23	7	28.F	25.F	-49229,613	7092279.	10746.001
2803.12549 29	9	59.F	58.F	18424.271	-25993.842	21	7	15.F	13.F	-74686.180	7279062.	10015.037
TOTAL 176594.406				•	-121355.063						88132888.	
				121665.469						-93940.977		11583.874

ENTECH ENGINERRING "EZDOR - ELITE SOFTWARE DEN READING, PA 19603 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR BLD_7

*BZDOR - BLITE SOFTWARE DEVELOPMENT INC

DOB-2.1D 8/4/1995 15:26:26 SDL RUN 1

WEATHER FILE- BALTIMORE, MD BLD_7

MAXIMUM BLEC LOAD (KW)	187.097	197.260	215.848	242.914	256.948	309.113	310.022	308.919	299.366	247.837	268.445	188.259		310.022
ELEC- TRICAL ENERGY (KWH)	130359.	118056.	132571.	133630.	151236.	169671.	187632.	183179.	161078.	144207.	130932.	130399.	1772953.	,
MAXIMUM HEATING LOAD (KBTU/HR)	-1242,406	-1202.864	-772.466	-617.025	-368.901	0.000	0.000	000.0	-23.277	-444.073	-620.654	-956.661		-1242.406
WET- BULB TEMP	5. F	4 · F	20.F	26.F	30.F				43.F	31.F	25.F	14.F		
DRY- BULB TEMP	6.F	6. F	23.F	28.F	36.F				46.F	32.F	28.F	16.F		
AX AR	7	7	9	œ	7				80	80	7	7		
TI OF M DY	31	m	ĸ	œ	10				30	28	23	22		
HEATING ENERGY (MBTU)	-395.770	-289.167	-159.189	-53.155	-10.086	000.0	000.0	0.000	-0.032	-20.454	-124.683	-317.204	-1369.740	
MAXIMUM COOLING LOAD (KBTU/HR)	201.818	357.541	612.326	952.614	1139.992	1822.667	1847.995	1796.270	1620.156	1015.712	1315.856	217.307		1847.995
WET- BULB TEMP	56.P	56.P	56.F	66.F	66.F	77.F	80.F	77.F	76.8	66.P	73.F	58.F		
DRY- BULB TEMP	59.P	62.F	74.F	78.F	82.F	91.F	89.F	93.F	92.F	82.F	82.F	59.F		
H AX B	13	16	16	14	11	11	13	17	14	16	14	7		
OF Y	o	28	29	20	21	28	24	18	7	13	7	6		
COOLING ENERGY (MBTU)	2.73361	7.79866	39.58744	123.95550	334.37982	650.41040	848.26263	787.59137	534.61896	224.13701	78.69498	3.34359	3635.517	
MONTH	JAN	FEB	MAR	APR	MAY	NOS	JOE	AUG	SBP	OCT	NOV	DEC	TOTAL	MAX
	COOLING TIME DRY- WET- COOLING HEATING TIME DRY- WET- HEATING TRICAL ENERGY OF MAX BULB BULB LOAD ENERGY OF MAX BULB BULB LOAD ENERGY (MBTU) DY HR TEMP (KBTU/HR) (MBTU) DY HR TEMP (KBTU/HR) (KMTU)	COOLING TIME DRY- WET- COOLING HEATING TIME DRY- WET- HEATING TRICAL ENERGY OF MAX BULB BULB LOAD ENERGY OF MAX BULB BULB LOAD ENERGY OF MAX BULB BULB LOAD ENERGY OF MAX BULB BULB LOAD ENERGY (KBTU/HR) (MBTU) DY HR TEMP TEMP (KBTU/HR) (MBTU) DY HR TEMP TEMP (KBTU/HR) (KWH) (KMH) 13 59.P 56.P 201.818 -395.770 31 7 6.P 5.P -1242.406 130359. 187	COOLING TIME DRY- WET- COOLING HEATING TIME DRY- WET- HEATING TRICAL BURNERSY OF MAX BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS BULLS 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48_GENERAL

MAXIMUM ELEC LOAD (KW) 658.443 658.443 658,443 658.443 658.443 658.443 658.443 658.443 658.443 658.443 658.443 658.443 658.443 --- BLBC--489879. BLEC-TRICAL ENERGY (KWH) 474076. 489879. 489879. 474076. 489879. 474076. 442471. 474076. 489879. 489879. 489879. 5768362. -11146.239 MAXIMUM HEATING LOAD (KBTU/HR) -13699.482 -13892.849 -9144.771 -7415.490 -5359.031 -317.124 -3.668 -175.319 -2191.392 -6301.522 -7548.288 -13892,849 - - - - - HEATING - -R. 47.F 13.F WET-BULB TEMP 4 . F 28.F 26.F 35.F 29.F 46.F 43.F 22.F 19.F 64.F 63.P 28.F 25.F DRY-BULB TEMP 6.F 6.P 52.F 53.F s 00 7 TIMB OF MAX DY HR 2 9 30 31 10 22 28 23 -0.438 -0.335 HEATING ENERGY (MBTU) -319.178 -0.004 -40.152 -4981.119 -2610.768 -1142.084 -616.435 -2042.341 -4097.769 -3808.562 -19659.150 2519.949 MAXIMUM COOLING LOAD (KBTU/HR) 1560.025 2374.213 5808.886 6383.616 10832.337 17564.289 19649.408 18125.967 14816.945 8736.681 13422.507 19649.408 WET-BULB TEMP - - - - - - COOLING -74.F 69.F 92.F 76.F 75.F 72.F 59.F 58.F 59.F 52.F 62.F 56.F 75.F 57.F 77.F 62.F 91.F 77.F 96.F 80.F 90.F 79.F 75.F 64.F DRY-BULB TEMP TIME OF MAX DY HR 9 28 14 25 14 15 2 14 1 12 19 12 28 17 a 8 22 28 16 29 15 31 COOLING ENERGY (MBTU) 871.01312 3876.42432 5259.23486 394,64340 384.42691 361.94824 533,79242 1990.07837 4778.25879 2993.47119 1403.53333 791.69543 23638.773 -----TOTAL MONTH FEB MAR APR MAY NO. Ę AUG SEP ပ္ပံ NOV MAX

DOB-2.1D 8/4/1995 15:26:26 SDL RUN 1 WEATHER FILE- BALTIMORE, MD BZDOR - BLITE SOFTWARE DEVELOPMENT INC 49 DEABGU ENTECH ENGINEERING BZDOE -READING, PA 19603 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

49 DEABGU WEATHER FILE- BALTIMORE, MD

MAXIMUM BLEC LOAD (KW) 8i5.959 949.456 650.169 707.926 1016.820 1239.137 1274.871 1246.897 1210.900 943.994 982.588 620.169 1274.871 --- B L E C - -ELEC-TRICAL ENERGY (KWH) 373905. 573121. 641112. 621024. 532021. 413270. 423642. 490360. 458379. 414180. 413270. -----419039. 5773213. MAXIMUM HEATING LOAD (KBTU/HR) 000.0 0.000 0.000 -7012.576 -6690.547 -4699.829 -2727.695 -1079.086 -3096.783 -3962.647 -5609.576 -7012.576 -4032.827 - - - - - - H B A T I N G - -57 54 4 · F 25.F WET-BULB TEMP 24.F 20.F 28.F 26.F 36.F 30.F 46.F 43.F 32.F 31.F 16.F 14.F 28.F 6.P 6.P DRY-BULB TEMP 80 7 TIME OF MAX DY HR 30 28 9 23 22 31 HEATING ENERGY (MBTU) 0.000 0.000 -9.693 -2546.988 0.000 -518.460 -118.999 -267.236 -1067.310 -2197.096 -1915.117 -1208.355 -9849.252 MAXIMUM COOLING LOAD (KBTU/HR) 0.000 0.000 952.441 2501,630 4110.848 5089.093 7608.369 8160.751 7642,015 6958.067 4287.255 5033.097 8160.751 -- COOLING --WET-BULB TEMP 60.F 55.P 74.F 56.F 83.F 63.F 82.F 66.F 92.F 77.F 91.F 79.F 93.F 77.F 89.F 72.F 78.F 66.F 81.F 72.F DRY-BULB TEMP TIME OF MAX DY HR 28 17 10 18 1 18 2 15 21 17 18 17 13 17 29 16 19 17 25 18 COOLING ENERGY (MBTU) 10.40430 93.03175 1185.00354 371.69562 2518,70801 3310.42651 3025.57031 1972.80957 694.62097 217.91878 0.0000.0 TOTAL 13400.206 0.0000.0 MONTH MAX NS. JAN FEB MAR APR Ę AUG SEP Ö NOV MAX

. ... DOE-2.1D 8/ 4/1995 15:26:26 SDL RUN 1 WEATHER FILE- BALTIMORE, MD RZDOR - RLITE SOPTWARE DEVELOPMENT INC 54 AFIPSP RYTECH ENGINERRING RZDOR -READING, PA 19603 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

MAXIMUM BLBC LOAD (KW) 1775.343 1811.050 2222.444 2143,444 1845.173 1963.790 1398.740 1581.028 2244.603 2207.408 1405.524 2244.603 1360,231 - - - BIBC - - -929378. ELEC-TRICAL ENERGY (KWH) 840621. 938592. 1025622. 1123927. 1220410. 1088996. 1018756. 941856. 1244364. 928728. 929673. 12231591. MAXIMUM HEATING LOAD (KBTU/HR) 0.000 000.0 0.000 -3759.638 -1150.482 -4528.100 -8714.624 -10883.411 -10883.411 -6943.017 -5420.951 -5540.527 -10846.154 WET-BULB TEMP 4.F 25.F 46.F 43.F 15.F 13.F - - - - - - HEATING -6.F 4.F 22.F 19.F 28.F 26.F 35.F 30.F 32.F 31.F 6.P 28.F DRY-BULB TEMP ~ **∞** 8 TIME OF MAX DY HR 4 9 17 19 8 Ŋ 30 28 23 21 HEATING ENERGY (MBTU) -3644.374 -172.234 0.000 0.000 -13.968 0.000 -347.408 -1295.320 -2872.135 -2727.859 -675.773 -13504.005 -1754.915 MAXIMUM COOLING LOAD (KBTU/HR) 2553.901 8408.471 1900.002 2444.933 5053.963 7287.734 8367.409 14407.431 13619,016 13614.819 12181.978 10760.764 14407.431 57.F 64.F 68.F WET-BULB TEMP 91.F 77.F - - - - - - - COOLING -59.F 56.F 62.F 56.F 91.F 77.F 93.F 77.F 92.F 76.F 82.F 67.P 78.F 72.F 62.F 57.F 75.F 83.F 77.F DRY-BULB TEMP TIME OF MAX DY HR 14 2 14 2 11 19 13 78 13 14 9 13 28 16 14 14 28 17 18 17 13 28 29 COOLING ENERGY (MBTU) 33.93944 49.84756 3325.58276 4648.01465 4300,96143 2898,02759 1446.15845 37.99460 235.70625 659.23621 1536.33984 497.43384 TOTAL 19669.221 MONTH JAN FEB MAR APR MAY Ę JDF. AUG SEP OC.T NOV Ä

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELO READING, PA 19603 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48_HEATON

BZDOR - ELITE SOFTWARE DEVELOPMENT INC

48_HEATON

DOE-2.1D 8/4/1995 15:26:26 SDL RUN 1

WEATHER FILE- BALTIMORE, MD

						:									
	MAXIMUM ELEC LOAD (KW)	5805.631	5805.631	5805.631	5805.631	5805.631	5805.631	5805.631	5805,631	5805.631	5805.631	5805.631	5805.631		5805.631
BLBC	BLEC- TRICAL ENBRGY (KWH)	4319428.	3901419.	4319428.	4180095.	4319428.	4180095.	4319428.	4319428.	4180095.	4319428.	4180095.	4319428.	50854012.	
1 1 1 1	MAXIMUM HEATING LOAD (KBTU/HR)	-48653.531	-49528.344	-31291.887	-24736.174	-16876.170	0.000	0.000	0.000	-4544.451	-20597.146	-25288.709	-38986.820		-49528.344
	WET- BULB TEMP	5. F	4. Fr	19.F	26.P	29.F				43.F	31.F	25.F	13.F		
ATIN	DRY- BULB TEMP	6.8	6.P	22.F	28.F	35.F				46.F	32.F	28.F	15.F		
Ħ	TIMB MAX HR	,	7	4	80	ស				œ	80	7	7		
,	TIME OF MAX DY HR	31	m	2	80	10				30	28	23	21		
1 1 1	HEATING ENERGY (MBTU)	-16496.758	-12296.108	-7871.819	-2979.261	-718.230	0.000	000.0	0.000	-42.901	-1485.878	-5908.329	-13138.281	-60937.461	
1 1	MAXIMUM COOLING LOAD (KBTU/HR)	9010.135	12350.511	23079.277	31489.102	40371.414	74764.172	82739.453	78237.719	67770.242	32755.074	52721.465	12671.130		82739.453
	WET- BULB TEMP	56.F	56.F	62.F	66.F	69.F	78.F	80.F	79.F	77.F	67.F	82.F 73.F	58.F		
-coori	DRY- BULB TEMP	59.8	62.F	65.F	78.F	78.F	86.F	87.F	89.F	89.F	82.F	82.F	59.F		
0	TIME MAX	13	16	9	14	17	16	20	14	13	14	14	9		
	TIME OF MAX DY HR	6	28	7	20	8	30	24	31	8	13	7	29		
	COOLING ENERGY (MBTU)	1737.82068	1660.10791	2326.37622	3679.51245	8465.31445	20722.38477	29866.14258	26830,57031	16105.08398	5411.63672	3852.85449	1762.32727	TOTAL 122420.313	
	HINOM	JAN	FEB	MAR	APR	MAY	NOS	Ę	AUG	SEP	00.1	NOV	DEC	TOTAL	MAX

DOR-2.1D 8/ 4/1995 15:26:26 SDL RUN 1 EZDOR - BLITE SOFTWARE DEVELOPMENT INC

WEATHER FILE- BALTIMORE, MD 48 ADMIN ENTECH ENGINEERING EZDOE -READING, FA 19603 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

MAXIMUM BLEC LOAD (KW) 306.303 306:303 306.303 306.303 306.303 306.303 306.303 306.303 306.303 306.303 306.303 306.303 306.303 --- B L B C - - -227888. 220537. 227888. BLEC-TRICAL ENERGY (KWH) 205835. 227888. 220537. 220537. 227888. 227888. 2682954. 227888. 220537. 227888. 0.000 MAXIMUM HEATING LOAD (KBTU/HR) 0.000 0.000 0.00 0.000 0.000 0.000 -36.344 0.000 0.000 0.000 -65.016 -65.016 WET-BULB TEMP 5. F 4 · P - - - - - - HEATING -6.F б. Р DRY-BULB TEMP TIME OF MAX DY HR -7 3 0.000 HEATING BNERGY (MBTU) -0.126 0.000 0.000 0.000 -0.759 -0.633 0.000 0.000 0.000 0.000 0.00 0.000 MAXIMUM COOLING LOAD (KBTU/HR) 815.924 843.858 1783.525 1299.625 1496.991 1086.225 1293.752 1412.813 1888.489 1952.547 1925.568 1952.547 779.105 WET-BULB TEMP 56.F 57.F 58.F - - - - - - COOLING -59.P 56.P 83.F 63.F 82.F 66.F 86.F 78.F 96.F 80.F 90.F 79.F 92.F 76.F 82.F 67.F 82.F 73.F 62.F DRY-BULB TEMP 75.F 59.F TIME OF MAX DY HR 14 9 13 16 15 14 14 28 16 29 15 21 17 30 16 25 14 31 13 13 7 ~ 5 COOLING ENERGY (MBTU) 281,10031 292.42172 662.79010 863.52612 1004.94971 963.56244 775,51825 566.55206 272.36353 6965.189 408,53656 479.21790 394.64178 TOTAL MONTH JAN MAY Š Ę AUG SEP ğ NOV MAX MAR APR

DOE-2.1D 8/ 4/1995 15:26:26 SDL RUN 1 EZDOE - BLITE SOFTWARE DEVELOPMENT INC RNTECH ENGINEERING EZDOR - ELITE SOFTWARE DEVELOI READING, PA 19603 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48 MRAIR

WEATHER FILE- BALTIMORE, MD

	•				:										
 MAXIMUM ELEC LOAD (KW)	898.569	898.569	898;269	898.569	898.569	898.569	898.569	898.569	898.569	898.569	898.569	898.569		898.569	
 BLEC- TRICAL ENERGY (KWH)	668532.	603835.	668532.	646966.	668532.	646966.	668532.	668532.	646966.	668532.	646966.	668532.	7871080.		
MAXIMUM HEATING LOAD (KBTU/HR)	-10409,997	-10575.047	-6913.101	-5575.413	-4019.902	-136.134	0.000	0.000	-1536.601	-4741.610	-5674,818	-8452.755		-10575.047	
WET- BULB TEMP	4. Fr	4.8	19.F	26.F	30.F	47.F			43.P	31.F	25.F	13.F			
DRY- BULB TEMP	7.	6.P	22.F	28.F	35.F	52.F			46.P	32.F	28.F	15.F			
TIME MAX HR	19	7	4	œ	7	9			œ	80	7	7			
TIME OF MAX DY HR	17	ю	'n	œ	11	22			30	28	23	21			
HEATING ENERGY (MBTU)	-3732.795	-2844.543	-1935.704	-828.416	-226.595	-0.136	0.000	0.000	-25.472	-439.287	-1495.731	-3048.474	-14577.173		
MAXIMUM COOLING LOAD (KBTU/HR)	1355.893	1956.609	4390.291	4994.374	6542.403	14155.073	15949.351	15032.445	12425.924	7259.854	9148.170	2083.525		15949.351	
WET- BULB TEMP	52.F	56.F	56.P	66.F	68.F	78.F	80.F	79.F	76.F	65.P	73.P	58.F			
DRY- BULB TEMP	59.F	62.P	74.F	78.F	79.F	86.F	89.F	90.F	92.F	70.F	82.F	59.1			
TIME MAX HR	22	16	13	14	11	17	19	15	14	15	14	ø			
TIME OF MAX DY HR	ω	28	53	20	26	30	24	31	~	30	7	53			
COOLING ENERGY (MBTU)	300.06345	283.12122	405.48590	684.60468	1245.10010	3249.03516	5023.97852	4420.36426	2595.42871	963.98743	598.71814	307.34085	20077.332		
MONTH	JAN	FEB	MAR	APR	MAY	NOS	100	AUG	SEP	ocr	NOV	DEC	TOTAL	MAX	

DOR-2.1D 8/ 4/1995 15:26:26 SDL RUN 1 RZDOR - BLITE SOPTWARE DEVELOPMENT INC

WEATHER FILE- BALTIMORE, MD 48_FITNESS READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

MAXIMUM ELEC LOAD (KW) 97.131 97.131 97.131 97.131 97.131 97.131 97.131 97.131 97.131 97.131 97.131 97.131 97.131 - - - R L B C - -BLEC-TRICAL ENERGY (KWH) 72266. 69935. 65273. 72266. 69935. 72266. 72266. 72266. 72266. 69935. 850825. 69935. 72266. MAXIMUM HEATING LOAD (KBTU/HR) 0.000 0.000 0.000 0.000 -649.285 -588.718 -261.897 -69.737 -261.136 -481.764 -649.285 -353.791 -128.504 WET-BULB TEMP 20.F 29.F 24.F - - - - - - HEATING -5.8 4 . F 32.F 31.F 28.F 25.F 36.F 30.F 16.F 14.F 23.F DRY-BULB TEMP 6.P 6.F 60 7 TIME OF MAX DY HR 9 7 æ 7 7 22 31 10 28 23 -141.644 HEATING ENERGY (MBTU) 0.00 0.000 0.000 -1.953 -0.715 0.000 -37,341 -190.090 -131,617 -53,386 -12.698 -569.443 -----MAXIMUM COOLING LOAD (KBTU/HR) 268.939 416.673 628.419 689.682 813.931 234.354 625.798 1125.594 208.701 1136.559 1235.046 1019.436 1235.046 66.F 72.F 66.F -----COOLING -WET-BULB TEMP 62.F 56.F 78.F 66.F 91.F 77.F 91.F 79.F 90.F 78.F 59.F 58.F 82.F 74.F DRY-BULB TEMP ₹.68 TIME OF MAX DY HR 29 6 17 18 18 11 13 20 14 28 17 31 16 28 16 21 Н 13 53 25 ~ COOLING ENERGY (MBTU) 146.30630 233.67871 373.42697 470.28455 422.97275 206.03949 51.58225 51,39704 50.49187 82.14308 333.34177 104.83438 2526.488 TOTAL MONTH MAY Ę AUG SEP Ö JAN MAR APR Ę Æ ¥

DOR-2.1D 8/4/1995 15:26:26 SDL RUN 1 WEATHER FILE- BALTIMORE, MD RZDOR - BLITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING EZDOE -READING, PA 19603 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

MAXIMUM BLEC LOAD (KW) 37,293 37.293 37.293 37.293 37.293 37.293 37,293 37.293 37.293 37.293 37.293 37.293 37.293 --BLBC---ELEC-TRICAL ENERGY (KWH) 27746. 27746. 27746. 26851. 27746. 27746. 26851. 27746. 26851. 25061. 27746. 26851. MAXIMUM HEATING LOAD (KBTU/HR) 000.0 -486,553 -595.930 -603.942 -401.397 -327.398 -245.715 -36.528 -24.176 -109.849 -283.595 -332.863 -603.942 4 · F 19.F -----HEATING -WET-BULB TEMP 52.F 47.F 28.F 27.F 35.F 30.F 53.F 53.F 46.F 43.F 32.F 31.F 28.F 26.F 15.F 13.F 22.F 6.9 4·9 DRY-BULB TEMP TIME OF MAX DY HR 7 ~ 9 4 7 13 11 22 22 30 σ 21 1 28 HEATING ENERGY (MBTU) -219.188 -0.157 0.000 -0.048 -2.645 -93.642 -181.246 -168.980 -119.506 -55.078 -16.736 -30.903 -888.131 MAXIMUM COOLING LOAD (KBTU/HR) 100.613 90.158 790.626 644.582 277.590 60.567 249,995 331.887 750.162 834.074 465.376 210.989 834.074 - - - - - - COOPING -WET-BULB TEMP 59.F 52.F 65.F 62.F 78.F 66.F 79.F 68.F 86.F 78.F 96.F 80.F 90.F 79.F 92.F 76.F 82.F 73.P 59.F 58.F DRY-BULB TEMP TIME OF MAX DY HR 22 9 28 16 20 14 26 17 30 17 25 14 31 15 2 14 2 14 17 Φ COOLING ENERGY (MBTU) 245.47079 14.40490 13,53719 18.27430 55.89507 215.03352 28.69227 167.32713 28.22661 14.86966 123.32504 42.06193 967.163 MONTH TOTAL MAR MAY Ĕ JUE, AUG Nov JAN APR SEP Ç MAX

CERAMICTUR TWR PUMP ELEC BTU/HR	400831. 298218368. 400831. 400831. 274970208	400831. 80162. 421842. 421842. 400831. 80162. 479327. 400831. 801662.	1202494. 1202494. 86579328. 1202494. 400831. 2404987. 136286112.
CERAMIC- TWR FAN ELEC BTU/HR	0. 0. 0. 0. 302338. 603744.	419236. 6085727. 8180. 8180. 31707500. 44038. 863296.	1113640. 498478944. 692332. 1113640. 6201344.
OPEN-CEN T-CHLR SIZES RUNNING	1447 12 1686	1. 783. 783. 1. 1. 861. 1. 1. 1. 1. 1. 2. 1.	2160. 2160. 3. 3400.
OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	3251939. 326372. 2428602624. 3264251. 325040. 6502883. 2238841160.	3252076. 650716. 3432842688. 3432844. 3251963. 6503822. 280167872. 3891222. 3251937.	9406573 10312154. 6976032256. 9686934. 3252103. 22523826. 11991940566.
OPEN-CEN T-CHLR LOAD BTU/HR	SUMMARY (JAN) 4621191. 14681218. 405564896. 5451163. SUMMARY (FEB) 19613390. 19613390. 5689863.	SUMMARY (WAR) 29661844 29661864 5061063186 6802505 SUMMARY (APR) 465097 30026140 707227840 9822539 SUMMARY (KAY) 4168069	SUMMARY (JUN) 411586 4518700. 24193839104. 3360256 601770. 6001770. 355237626.
нидом	MONTHLY MN MN MX SM AV AV MONTHLY MN SM SM AV	MONTHLY MX MX SM SM AV MONTHLY MX MX MX MX MX MX MX MX MX MX MX MX MX	MONTHLY MN MN MX SM AV MONTHLY MN MN SM SM AV

REP_2	READING, PA - HOU	PA 19603 - HOURLY-REPORT					PA	PAGE 2-
 	OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR FAN ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR			
	(1)	( 3)	(9)	(20)	(21)			
MONTHLY MN MX SM SM AV	SUMMARY (AUG) 5296399. 89214016. 33936842752. 45614036.	3253136. 22282284. 12222137344. 16427604.	3693. 5.	0. 1113640. 662747712. 890790.	400831. 2404987. 1480269440. 1989610.			
MN MX SM SM AV	MONTHLY SUMMARY (SEP) MN 4214211. MX 45518700. SM 20147040256. AV 27982000.	9406573. 10663575. 6987008512. 9704178.	3. 3. 2160.	0. 1113640, 393803296, 546949.	1202494. 1202494. 865795328. 1202494.			
MONTHLY MN MX SM SM AV	r SUMMARY (OCT) 4098615. 44474672. 9880268800. 13279931.	9296117. 9797319. 7262317568. 9761180.	3. 2232. 3.	0. 980832. 110542344. 148578.	1202494. 1202494. 894655168.			
MN MX MX SM SM AV	MONTHLY SUMMARY (NOV) MN 5031878. MX 30345800. SM 6139235328. AV 8526716.	3251966. 6503834. 2688098816. 3733471.	1. 2. 827.	972711. 44690376. 62070.	400831. 801662. 331487296. 460399.			
MONTHLY MN MX SM AV	Y SUMMARY (DEC) 4079346. 20153374. 4089578240. 5496745.	3252316. 6501067. 2467534592. 3316579.	756.	0. 309373. 1515473. 2037.	400831. 801662. 303028352. 407296.			
YEARLY MN MX SM SM AV	SUMMARY 3641630. 89214016. 166589169664. 19017028.	3251937. 22523626. 63657947136. 7266889.	1. 6. 19430.	0. 1113640. 2562689792. 292545.	400831. 2404987. 7788149248. 889058.			

ENTECH ENGINERRING BZDOE - ELITE READING, PA 19603 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE

BZDOB - ELITE SOPTWARE DEVELOPMENT INC

DOE-2.1D 8/ 4/1995 15:26:26 PDL RUN 1

WEATHER FILE- BALTIMORE, MD

0.00 0.00 0.00 0.00 0.00 191700.12 191700.12 FUEL-OIL ENERGY TYPE IN SITE MBTU - ELECTRICITY 106365.76 00.00 0.00 383364.60 0.00 82405.88 44791.50 0.00 149801.47 CATEGORY OF USE DOM HOT WIR MISC BOUIP SPACE HEAT SPACE COOL VERT TRANS AUX SOLAR HVAC AUX LIGHTS TOTAL

241.5 KBTU/SQFT-YR NET-AREA 564.1 KBTU/SQFT-YR NET-AREA TOTAL SITE ENERGY 575059.92 MBTU 241.5 KBTU/SQFT-YR GROSS-AREA TOTAL SOURCE ENERGY 1342929.90 MBTU 564.1 KBTU/SQFT-YR GROSS-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 76.9 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 16.2

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

DOE-2.1D 8/ 4/1995 15:26:26 EDL RUN 1 EZDOE - ELITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING EZDOE READING, PA 19603
REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES TOTAL CHARGES (\$) 332490.78 527044.13 435924.13 373431.47 365487.66 397787.19 447129.25 551451.13 432600.13 367053.38 0.00 0.00 0.00 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 -----DEMAND CHARGE (\$) BILLING DEMAND (KW) 12724. 12679. 12879. 12927. 12749. 13079. 13286. 13063. 13126. 15461. 15159. 15433. 19079. 19326. 19384. 18895. 18975. 19231. 15098. 14917. 15253. 11285. 12238. 12496. 11337. 11235. 11235. MEASURED DEMAND (KW) 12927. 12749. 13079. 13286. 13063. 13126. 15461. 15159. 15433. 19079. 19326. 19384. 18895. 18975. 19231. 15098. 14917. 15253. 12724. 12679. 12879. 11337. 11235. 11235. 11285. 12238. 12496. 168877.66 94848.75 109705.07 181808.44 83756.30 99922.91 187336.91 95583.18 114867.09 175037.88 116170.24 155921.14 213293.72 133832.48 179917.94 193646.86 152606.55 205197.69 189007.89 103866.96 139725.28 186996.47 106301.43 142626.23 182306.27 85957.73 98789.39 164406.16 77882.69 90201.94 ENERGY CHARGE (\$) CONSUMPTION BY C-A (KWH) 4683423. 2077895. 2167304. 5695496. 3246948. 3309640. 5148173. 2471707. 2514857. 4110154. 1693102. 1701923. 6273345. 2847500. 2901902. 5559056. 2209935. 2253634. 5499896. 2261733. 2300423. 4557657. 1868646. 1863951. 4221941. 2061929. 2069907. 4545211. 1820789. 1885338. ------LENGTH (HR/MO) 368 176 176 392 176 176 424 160 160 376 184 184 400 160 160 408 168 168 400 160 160 408 168 168 368 152 152 376 184 184 CHARGE-ASSIGNMENT (U-NAME) OFF_PWIN INT_WIN ON_PWIN OFF_PWIN INT_WIN ON_PWIN OFF_PWIN INT_WIN ON_PWIN OPF_PWIN INT_WIN ON_PWIN OFF_PWIN INT_WIN ON_PWIN OFF_PSUM INT_SUM ON_PSUM OFF_PSUM INT_SUM ON_PSUM OFF_PSUM INT_SUM ON_PSUM OFF_PSUM INT_SUM ON_PSUM OPP_PSUM INT_SUM ON_PSUM ..... MONTH AUG Ö MAY Ę Ę SEP JAN FEB MAR APR

DOR-2.1D 8/ 4/1995 15:26:26 EDL RUN 1 --CONTINUED------TOTAL CHARGES (\$) 362662.28 DEMAND CHARGE (\$) 0.00 BILLING DEMAND (KW) 13145. 13352. 13363. MEASURED DEMAND (KW) EZDOE - ELITE SOFTWARE DEVELOPMENT INC 13145. 13352. 13363. ENERGY CHARGE (\$) 181436.44 83790.60 97435.24 CONSUMPTION BY C-A (KWH) 4535911. 1821535. 1838401. ENTECH ENGINERRING EZDOB READING, PA 19603
REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES LENGTH (HR/MO) 400 160 160 CHARGE-ASSIGNMENT (U-NAME) OFF_PWIN INT_WIN ON_PWIN MONTH ----

365999.06

0.00

0.00

12528. 12197. 12426.

12528. 12197. 12426.

189659.53 81915.16 94424.36

4741488. 1780764. 1781592.

424 160 160

OFF_PWIN INT_WIN ON_PWIN

DEC

NOV

4959060.50

112323208.

TOTAL

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Sp. II.

		ENGINEERING	RING		BZD(	EZDOR - BLITE SOFTWARE DEVELOPMENT INC	ARE DEVELOPME	NI IN	ភ	ă	DOB-2.1D	8/4/1995	14:51:11 S	SDL RUN 1	
REPOR	READING, REPORT-SS-D PLAN	PA VI MON	NTHLY	19603 LOADS	PA 19603 PLANT MONTHLY LOADS SUMMARY FOR	POR	DEFAULT-PLANT	ANT			.5	WEATHER FILE- BALTIMORE,	BALTIMORE, MD		
	1 1 1 1 1 1 1 1 1 1 1						 					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	† † † † † † † † † † † † † † † † † † †	: : : : : : : :	
			Ö	O L I N		•	1 1 1	-	H B A	T I			B	I	
	COOPING	TIME	TIME	DRY-	WET-	MAXIMUM COOLING	HEATING	TIME		DRY-	WET-	MAXIMUM HEATING	ELEC- TRICAL ENERGY	MAXIMUM BLEC LOAD	
MONTH	H (MBTU)	ΔĞ	DY HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY HR		TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)	
JAN	9613.13086	σ	13	59.F	56.F	15251.186	-40744.055	31	7	6.P	5.7	-104451.000	6568256.	9004.412	
FEB	8777.30371	28	16	62.F	56.F	17192.854	-31872.002	m	7	6.P	Α. Π.	-105477.664	5934229.	9083.588	
MAR	9735.27734	₽	9	65.P	62.F	33180.590	-23414.174	Ŋ	4	22.F	19.F	-71963.398	6584704.	9381:594	
APR	9833.24512	20	14	78.F	66.P	38849.887	-11844,405	œ	80	28.F	26.F	-60041.801	6416032.	9523.635	
MAY	12608.34961	28	15	75.F	4. 69	52250.500	-3735.315	10	ς.	35.F	29.F	-44415.762	6743509.	9732,266	
SUN	27501.61719	30	11	86.F	78.F	107616.672	-104.744	22	φ	52.F	47.F	-8449.741	6766968.	10570.350	
TOT	39283.68750	25	14	96.F	80.P	119588.219	-12.671	21	w	56.F	54.F	-3191.806	7129982.	10543.486	
AUG	35322.00781	31	15	90.8	79.F	113259.875	-42.976	22	4	53.F	53.F	-6923.593	7081547.	10566.469	
SEP	21333.81250	7	14	92.F	76.P	94056.664	-741.860	30	ω	46.F	43.F	-21592.180	6683538.	10443.975	
ocr	10556.63281	13	16	82.F	4.99	42535.754	-6998.219	28	<b>∞</b>	32.F	31.F	-52171.109	6698499.	9746.471	
NOV	11004.69824	7	14	82.F	73.P	66026.844	-19062.506	23	7	28.F	25.F	-61082.551	6399270.	9745.348	
DEC	9636.00391	29	v	59.F	58.F	20647.355	-34582.574	21	7	15.P	13.F	-86143.844	6568651.	9030.119	
TOTA	TOTAL 205205.672					,	-173155.797					•	79575520.		
MAX						119588.219						-105477.664		10570.350	

14:51:11 SDL RUN 1 WEATHER FILE- BALTIMORE, MD DOR-2.1D 8/4/1995 EZDOE - BLITE SOFTWARE DEVELOPMENT INC BLD 7 ENTECH ENGINEERING EZDOE READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

268.900 278.466 237.612 217.547 MAXIMUM ELEC LOAD (KW) 212.897 226.880 279.016 278.320 158.786 279.016 157.506 187,237 168.093 ---BIBC--112585. 123710. ELEC-TRICAL ENERGY (KWH) 112550. 113981. 114567. 130275. 148484. 165372. 160993. 140077. 112823. 1 1 1 1 1 1 1 1 1 1537300. 101849. MAXIMUM HEATING LOAD (KBTU/HR) 000.0 -1038.139 000.0 -525.734 -1324.938 -697.860 -450.762 0.000 -109.612 -701.269 -1324.938 -1285.343 -853,336 5. F 20.F WET-BULB TEMP 28.F 26.F 36.F 30.F 46.F 43.F 32.F 31.F 28.F 25.F 16.F 14.P ---HBATING-6.F 4.F 23.F DRY-BULB TEMP 6.P 7 TIME OP MAX DY HR 8 œ 22 8 ខ្ម 30 28 23 31 -375.419 -77.653 0.000 0.000 HEATING ENERGY (MBTU) 0.000 -0.508 -34.519 -167,097 -1668.062 -453.922 -16.290 -339.400 -203,253 -----926.349 MAXIMUM COOLING LOAD (KBTU/HR) 531.717 1218.196 121.217 104.715 862.025 1053.419 1734.886 1756.852 1706.864 1529.352 1756.852 270.902 - - - - - - COOPING - - -DRY- WET-BULB BULB TEMP TEMP 66.P 82.F 73.F 62.F 57.F 78.F 66.P 82.F 66.F 91.F 77.F 89.F 80.F 93.F 77.F 92.F 76.F 59.F 56.F 62.F 56.F 74.F 56.F 82.F TIME OF MAX DY HR 2 14 20 14 18 17 9 13 28 16 29 16 21 17 28 17 24 19 13 16 2 14 88 1.20537 COOLING ENERGY (MBTU) 62.03271 3.74440 23.78544 90,26086 278.16791 585.51459 779.36328 718.15094 472.01163 175.59120 0.63761 3190.462 MONTH Ę Ę AUG SEP Ö NOV MAX SAN MAR MAY APR

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DOR-2.1D 8/ 4/1995 14:51:11 SDL RUN 1 ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOR-2.1D 8/ 4/1995 14:51:11 SDL RUN 1 READING, PA 19603 SUMMARY FOR 48_GENERAL WEATHER FILE- BALTIMORE, MD

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	MAXIMUM BLEC LOAD (KW)	570.010	570.010	570.010	570.010	570.010	570.010	570.010	570.010	570.010	570.010	570.010		570.010
	ELECTRICAL ENERGY (KWH)	424086.	424086.	410406.	424086.	410406.	424086.	424086.	410406.	424086.	410406.	424086.	4993206.	
1	MAXIMUM HEATING LOAD (KBTU/HR)	-13634.447	-9146.646	-7432.197	-5424.757	-476.005	000.0	-297.905	-2295.173	-6352.423	-7563.270	-11127.244		-13848.404
ا ن ق	WET- BULB TEMP	સં ક્ષ	19.F	26.F	29.F	47.F		53.P	43.F	31.F	25.F	13.F		
H	DRY- BULB TEMP	. e. e.	22.F	28.F	35.F	52.F		53.F	46.F	32.F	28.F	15.F		
н 83	IMB MAX HR		4	œ	ro.	9		4	80	80	7	7		
	TIME OF MAX DY HR	31	Ŋ	80	10	22		22	30	28	23	21		
1 1 1	HEATING ENERGY (MBTU)	-4990.230	-2649.620	-1179.443	-338.652	-1.233	0.000	-0.584	-46.244	-644.832	-2075.696	-4114.051	-19866.902	
1	MAXIMUM COOLING LOAD (KBTU/HR)	1486.780	5666.025	6229.021	10677.272	17196.959	19291.533	17704.188	14418.330	7351.011	13221.605	2434.204		19291.533
! !	WET- BULB TEMP	52.F 56.F	57.F	62.F	69.F	77.F	79.F	79.F	76.P	65.P	72.F	58.F		
- C O O L I N	DRY- BULB TEMP	59.F	75.F	77 . F	74.F	91.F	94.F	90.F	92.F	70.F	76.F	59.F		
0	TIME	22	15	12	14	11	11	15	14	15	10	ω		
1	TIME OF MAX DY HR	8 8 8	29	19	28	28	25	31	7	30	<b>N</b>	29		
1	COOLING ENERGY (MBTU)	366,57819	507.44604	829.66132	1965.63037	3751.32520	4992.02588	4704.16016	2890.95068	1417.23206	799.33447	376.95667	22945.918	
	MONTH	JAN	MAR	APR	MAY	NOS	ZOE.	AUG	SEP	ocr	NOV	DEC	TOTAL	MAX

DOR-2.1D 8/ 4/1995 14:51:11 SDL RUN 1 EZDOE - ELITE SOPTWARE DEVELOPMENT INC

WEATHER FILE- BALTIMORE, MD 49 DEABGU ENTECH ENGINEERING EZDOE READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

MAXIMUM BLEC LOAD (KW) 977.645 942.705 668.146 778.681 910.382 1199.386 1235.089 1207.031 1171.664 905.047 619.007 1235.089 619.007 - - BIBC - -543925. 590747. 431120. 390510. BLEC-TRICAL ENERGY (KWH) 352808. 610815. 390083. 1 1 1 1 1 390083. 395018. 398608. 461971. 503318. 5458865. MAXIMUM HEATING LOAD (KBTU/HR) 0.000 -4224.110 0.000 000.0 -1254.489 -4147.675 -5804.879 -7217.497 -4892.026 -2912.906 -3279.526 -7217.497 -6892.224 20.F 32.F 31.F 28.F 25.F 16.F 14.F - - - HBATING -WET-BULB TEMP 5.4 4.1 28.F 26.P 36.F 30.F 46.F 43.P 24.F DRY-BULB TEMP 6.4 6.P 7 TIME OF MAX DY HR 80 8 œ 22 31 10 30 28 23 HEATING ENERGY (MBTU) 0.000 0.000 0.000 -14.374 -314.781 -1164.475 -2323.983 -2675.727 -585.451 -142.455 -10560.420 -2025.801 -1313.365 -------MAXIMUM COOLING LOAD (KBTU/HR) 0.000 0.000 8049.139 810,331 2389.060 4003.201 4979.660 7497.133 7529.449 6855.967 4170.123 4893.536 8049,139 DRY- WET-BULB BULB TEMP TEMP 79.F 60.P 55.P 74.F 56.F 83.F 63.F 82.F 66.F 92.F 77.F 93.F 77.F 89.F 72.F 78.F 66.F 81.F 72.F - - - - - - - COOLING -91.F TIMB OF MAX DY HR 19 17 1 18 28 17 18 12 29 16 21 17 10 18 18 17 13 17 25 COOLING ENERGY (MBTU) 7.82057 328.14706 1097,99841 2914.23682 78.81355 2413.17529 197.18172 0.0000.0 TOTAL 12737.737 0.0000.0 3201.46289 1871.75684 627.15131 . . . . . . . . . . . . . MONTH AUG APR MAY ğ Ę SEP ا ا NOV DEC Æ JAN FEB MAR

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DOR-2.1D 8/ 4/1995 14:51:11 SDL RUN 1 RZDOR - ELITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEBRING EZDOR READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

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WEATHER FILE- BALTIMORE, MD

MAXIMUM BLEC LOAD (KW) 1219.201 1394.048 1584.673 1614.586 2036.875 1997.405 2013.748 1939.881 1649.348 1762.711 2036.875 1172.315 1211.662 - - B L B C 805502. 805143. ELEC-TRICAL ENERGY (KWH) 949343. 728172. 812057. 890774. 983757. 1093303. 1069319. 883177. 805143. 815223. 10640468. -9066.163 MAXIMUM HEATING LOAD (KBTU/HR) 0.000 0.000 -11374.993 -5764,002 -4119.084 -80.762 -1508.027 -4876.769 -5874.432 -11374.993 -11330.797 -7281.034 4.F 19.F 26.F 31.F 13.F WET-BULB TEMP 46.F 43.F 6.F 4.F 35.F 30.F 52.F 47.F 28.F 26.F ------HBATING 32.F 6.F 22.F 28.F 15.F DRY-BULB TEMP ~ 9 œ TIME OF MAX DY HR 13 9 11 œ 11 22 21 • S 30 28 0 HEATING ENERGY (MBTU) -3096.206 0.000 0.000 -24.094 -3869.496 -219.157 -0.081 -426.353 -1471.369 -2926.968 -1945.941 -804.592 -14784.268 MAXIMUM COOLING LOAD (KBTU/HR) 11747.731 8008.031 1537.219 2109.676 4735.249 6959.367 7893.520 13819.104 13062.989 13036.944 10264.684 2230,756 13819.104 WET-BULB TEMP 56.F 57.F 64.P 77.F 77.F 67.F 78.F 72.F - - - - - - - COOLING -59.F 56.F 77.F 68.F 91.F 77.P 92.F 76.P 62.F 57.F 62.F 75.F 91.F 93.F 82.F 83.F DRY-BULB TEMP TIME OF MAX DY HR 14 9 13 18 14 28 16 29 14 14 19 13 28 17 17 14 2 11 13 6 18 8 13 28 COOLING ENERGY (MBTU) 23.83951 29.18485 36.76395 184.43434 542.47528 1353.35986 3013.28760 3884.88843 2578.72900 1246.08215 433.05588 4239.85596 -----TOTAL 17565,973 MONTH SEP Ę JAN MAR APR MAY Ŗ AUG ပ္ပ NOV DEC Α¥ FBB

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DOR-2.1D 8/4/1995 14:51:11 SDL RUN 1 WEATHER FILE- BALTIMORE, MD EZDOR - BLITE SOPTWARE DEVELOPMENT INC 48_HEATON ENTECH ENGINEERING REDOR - READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

MAXIMUM BLEC LOAD (KW) 5288.347 5288.347 5288.347 5288.347 5288.347 5288.347 5288.347 5288.347 5288.347 5288.347 5288.347 5288.347 5288.347 - - BIBC - -ELEC-TRICAL ENERGY (KWH) 3807587. 3934505. 3553751. 3807587. 3934505. 3807587. 3934505. 3934505. 3934505. 3807587. 3934505. ------3934505. 46323524. MAXIMUM HEATING LOAD (KBTU/HR) -7405.485 -3191.806 -6340.911 -14521.438 -36386.422 -49728.605 -60260.598 -59179.094 -60260.598 -42147.070 -35645.617 -27790.234 -31806.393 - - - - - - HEATING - -19.F 54.8 WET-BULB TEMP 13.F 6.P 5.P 28.F 26.F 35.F 30.F 52.P 47.F 53.F 53.F 46.F 43.F 32.F 31.F 28.F 25.F 6.F 4.F 56.P 22.F 15.P DRY-BULB TEMP 80 80 œ TIME OF MAX DY HR 9 ß 7 80 1 21 31 ٣ Ŋ 22 22 30 28 23 77 -21196.879 HEATING ENERGY (MBTU) -616.157 -24515.072 -2732.608 -101.885 -12.671 -12454.127 -41.827 -5039.635 -109512.570 -19512.869 -15079.275 -8209.682 MAXIMUM COOLING LOAD (KBTU/HR) 11693.745 12005.558 22738.422 29738.766 37799.309 73686.609 80938.117 77241.070 64857.664 49818.195 15177.600 33652.914 80938.117 - - - - - - COOLING - -WET-BULB TEMP 66.P 78.F 79.F 77.F 67.F 73.F 58.8 13.F 11.F 62.F 55.F 65.F 62.F 78.F 69.F 96.F 80.F 78.F 86.F 90.F 89.F 82.F 59.F DRY-BULB TEMP 82.F 15 5 9 12 TIMB OF MAX DY HR 28 15 14 28 17 30 17 25 14 14 31 15 14 н 20 7 13 ~ 53 COOLING ENERGY (MBTU) 8627.30176 8584.96777 7819.69678 JUN 19209.87109 JUL 27985.67188 24983.47852 SEP 14865.99219 8639.98730 8339.14453 7734.30322 7421.09717 9126.42578 -----TOTAL 153337.109 MONTH MAY NOV JAN AUG

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DOR-2.1D 8/ 4/1995 14:51:11 SDL RUN 1 EZDOR - BLITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING EZDOB -READING, PA 19603 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

WEATHER FILE- BALTIMORE, MD

48 ADMIN

306.303 306.303 MAXIMUM ELEC LOAD (KW) 306.303 306.303 306.303 306.303 306.303 306.303 306.303 306.303 ---BLBC---306.303 306.303 306.303 227888. 220537. 220537. 227888. 205835. 227888. 227888. 227888. ELEC-TRICAL ENERGY (KWH) 227888. 220537. 220537. 227888. 2682954. MAXIMUM HEATING LOAD (KBTU/HR) 0.000 -36.344 0.000 0.00 0.000 0.000 0.000 0.00 0.000 -65.016 0.000 0.000 -65.016 WET-BULB TEMP 4 · F --HBATING-6.F 5.F DRY-BULB TEMP 6.P TIME OF MAX DY HR 7 7 31 HEATING ENERGY (MBTU) -0.633 -0.126 0.000 0.000 0.000 0.000 0.000 0.000 000.0 0.000 0.000 0.000 -0.759 MAXIMUM COOLING LOAD (KBTU/HR) 815.924 843.858 1888.489 1925.568 1783,525 1086.225 1293.752 1412.813 1952.547 1299.625 1496.991 779.105 1952.547 - - - - - - - COOLING -WET-BULB TEMP 63.F 66.F 78.P 96.F 80.F 79.F 76.F 67.F 58.F 59.F 56.P 82.F 75.F 83.F 86.F 90.F 92.F 82.F 82.F 59.F DRY-BULB TEMP 62.F TIME OF MAX DY HR 14 25 14 2 14 16 16 21 17 15 14 9 13 29 15 30 16 33 13 53 28 13 COOLING ENERGY (MBTU) 292.42172 662.79010 863.52612 1004.94971 272.36353 281.10031 408.53656 479.21790 963.56244 775.51825 566.55206 394.64178 6965.189 MONTH TOTAL Į, MAY ND, SEP bo MAX JAN

RZDOR - BLITE SOFTWARE DEVELOPMENT INC ENTECH ENGINERRING
READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

WEATHER FILE- BALTIMORE, MD

DOR-2.1D 8/ 4/1995 14:51:11 SDL RUN 1

48 WRAIR

MAXIMUM BLEC LOAD (KW) 771.474 771.474 771.474 771.474 771.474 771.474 --BLBC---771.474 771.474 771.474 771.474 771.474 771.474 771.474 555460. ELEC-TRICAL ENERGY (KWH) 573976. 555460. 573976. 555460. 555460. 573976. 518428. 573976. 573976. 573976. 6758320. 573976. MAXIMUM HEATING LOAD (KBTU/HR) 0.000 -4226.961 -10504.837 -10655.301 -7039.197 -5717.592 -450.962 -260.601 -1793.592 -4918.166 -5815.814 -8559.507 -10655.301 WET-BULB TEMP 6.F 4.F 6.F 4.F 28.F 26.F 35.F 30.F 52.F 47.F 53.F 53.F 46.F 43.F 32.F 31.F 28.F 25.F 15.F 13.P 22.F 19.F -----HEATING DRY-BULB TEMP ~ 9 7 4 7 TIME OF MAX DY HR 17 19 7 Ħ 23 21 ۳ 22 22 30 28 HEATING ENERGY (MBTU) -1.388 -0.516 0.000 -1598.771 -3153.145 -3829.686 -268.703 -37.838 -505.242 -2939.957 -2049.839 -919.813 -15304.933 MAXIMUM COOLING LOAD (KBTU/HR) 1885.883 1175.775 4440.757 5956.420 15427.973 14476.953 11881.088 9023.315 4363.893 13590.089 5678.234 15427.973 1728.123 - - - - - - - COOLING - -76.F 65.F 70.F WET-BULB TEMP 78.F 79.F 58.F 59.F 52.F 56.F 57.F 66.F 79.F 68.F 96.F 80.F 92.F 62.F 86.F 71.F 90.F 70.F 59.F 75.F 78.F DRY-BULB TEMP TIME OF MAX DY HR 14 6 8 22 14 14 26 17 17 15 2 14 13 28 16 53 30 25 30 20 31 COOLING ENERGY (MBTU) 272.36038 256.20468 1105.38452 2344.69238 379.73642 615.06641 3136.14038 4585.28662 4032,81763 903.64618 551.23499 280.25504 TOTAL 18461.633 -----MONTH MAR . MAY SEP APR NE, 307 AUG NOV JAN PEB Ö MAX

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DOE-2.1D 8/ 4/1995 14:51:11 SDL RUN 1 ENTECH ENGINEERING EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 8/4/1995 14:51:11 SDL RUN 1
READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48 FITNESS WEATHER FILE- BALTIMORE, MD EZDOE - ELITE SOFTWARE DEVELOPMENT INC

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B C	MAXIMUM BLEC LOAD (KW)	97.131	97.131	97:131	97.131	97.131	97.131	97.131	97.131	97.131	97.131	97.131	97.131		97.131
B L	ELBC- TRICAL ENERGY (KWH)	72266.	65273.	72266.	69935.	72266.	69935.	72266.	72266.	69935.	72266.	69935.	72266.	850825.	
	MAXIMUM HEATING LOAD (KBTU/HR)	-649.285	-588.718	-353.791	-261.897	-69.737	0.000	0.000	0.000	0.000	-128.504	-261.136	-481.764		-649.285
	WET- BULB TEMP	ري يو	4.F	20.F	24.F	30.F					31.F	25.F	14.F		
ATIN	DRY- W BULB E TEMP 1	ь.	6.F	23.F	29.F	36.P					32.F	28.F	16.F		
M	IMB MAX HR	7	7	9	80	7					80	7	7		
#	TIME OF MAX DY HR	31	m	z,	6	10					28	23	22		
1	HEATING ENERGY (MBTU)	-190.090	-131.617	-53.386	-12.698	-0.715	0.000	0.000	0.000	0.000	-1,953	-37.341	-141.644	-569.443	
:	MAXIMUM COOLING LOAD (KBTU/HR)	208.701	268.939	416.673	628.419	689.682	1136.559	1235.046	1125.594	1019.436	625.798	813.931	234.354		1235.046
	WET- BULB TEMP	56.P	56.P	56.F	66.F	66.F	77.F	79.F	78.F	72.F	66.F	73.F	58.7		
- COOLIN	DRY- BULB TEMP	59.F	62.F	74.F	78.F	82.F	91.F	91.F	90.F	89.F	78.F	82.F	59.F		
0	TIME MAX HR	13	16	16	14	11	11	18	16	18	17	14	9		
•	TIME OF MAX DY HR	o	28	29	20	21	28	25	31	7	13	7	29		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	COOLING ENERGY (MBTU)	51.39704	50.49187	82.14308	146.30630	233.67871	373.42697	470.28455	422.97275	333.34177	206.03949	104.83438	51.58225	2526.488	
	MONTH	JAN	FEB	MAR	APR	MAY	NOS	301	AUG	SRP	oct	NOV	DEC	TOTAL	MAX

DOE-2.1D 8/ 4/1995 14:51:11 SDL RUN 1 BZDOB - BLITE SOFTWARE DEVELOPMENT INC

WRATHER FILE- BALTIMORE, MD ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVER
REPORT- SS-A SYSTEM MONTHLY LOADS SUWMARY FOR 48_MRI

DRY-	WET-	MAXIMUM	HEATING	TIMB	Æ	DRY-	WBT-	MAXIMUM HEATING	ELEC- TRICAL	MAXIMUM BLEC	
BULB	BULB	LOAD (KBTU/HR)	ENERGY (MBTU)	OF MAX		BULB	BULB	LOAD (KBTU/HR)	ENERGY (KWH)	LOAD (KW)	
59.F	52.F	60.567	-219.188	17	19	6.8	4. Fr	-595.930	27746.	37.293	
62.F	¥.95	90.158	-168,980	m	7	6.P	4. F	-603.942	25061.	37.293	
65.P	62.F	210.989	-119.506	D.	4	22.F	19.F	-401.397	27746.	37.293	
78.F	66.F	249.995	-55.078	80	7	28.F	27.F	-327.398	26851.	37.293	
79.F	4.89	331.887	-16.736	11	7	35.8	30.F	-245.715	27746.	37.293	,
86.F	78.F	750.162	-0.157	22	9	52.F	47.F	-36.528	26851.	37.293	
96.F	80.F	834.074	0.000					0.000	27746.	37.293	
90.F	79.F	790.626	-0.048	22	4	53.F	53.F	-24.176	27746.	37.293	
92.F	76.P	644.582	-2.645	30	80	46.F	43.F	-109.849	26851.	37.293	
4.73	64.F	277.590	-30.903	28	<b>∞</b>	32.F	31.F	-283.595	27746.	37.293	
82.F	73.F	465.376	-93.642	6	7		26.F	-332.863	26851.	37.293	
59.F	58.7	100.613	-181.246	21	7	15.F	13.F	-486.553	27746.	37.293	
			-888.131						326673.		
		834.074						-603.942		37.293	
	86.7 90.7 67.7 882.8 82.8		78.8 80.8 79.8 76.8 73.8	78.F 750.162 80.F 834.074 79.P 790.626 76.P 644.582 64.F 277.590 73.P 465.376 58.P 100.613 -18	78.F 750.162 -0.157 80.F 834.074 0.000 79.F 790.626 -0.048 76.F 644.582 -2.645 64.F 277.590 -30.903 73.F 465.376 -93.642 58.F 100.613 -181.246	78.F 750.162 -0.157 22 6 80.F 834.074 0.000 79.F 790.626 -0.048 22 4 76.F 644.582 -2.645 30 8 64.F 277.590 -30.903 28 8 73.F 465.376 -93.642 9 7 58.F 100.613 -181.246 21 7 -888.131	78.F     750.162     -0.157     22     6     52.F       80.F     834.074     0.000     22     4     53.F       76.F     644.582     -2.645     30     8     46.F       73.F     277.590     -30.903     28     8     32.F       73.F     465.376     -93.642     9     7     28.F       58.F     100.613     -181.246     21     7     15.F       -888.131     -888.131	78.F     750.162     -0.157     22     6     52.F       80.F     834.074     0.000     22     4     53.F       76.F     644.582     -2.645     30     8     46.F       64.F     277.590     -30.903     28     8     32.F       73.F     465.376     -93.642     9     7     28.F       58.F     100.613     -181.246     21     7     15.F       -888.131     -888.131	78.F     750.162     -0.157     22     6     52.F     47.F       80.F     834.074     0.000     22     4     53.F     53.F     53.F       79.F     790.626     -0.048     22     4     53.F     53.F       76.F     644.582     -2.645     30     8     46.F     43.F       73.F     277.590     -30.903     28     8     32.F     31.F       73.F     465.376     -93.642     9     7     28.F     26.F       58.F     100.613     -181.246     21     7     15.F     13.F       -888.131     -888.131	78.F     750.162     -0.157     22     6     52.F     47.F     -36.528       80.F     834.074     0.000     0.000       79.F     790.626     -0.048     22     4     53.F     53.F     -24.176       76.F     644.582     -2.645     30     8     46.F     43.F     -109.849       64.F     277.590     -30.903     28     8     32.F     31.F     -283.595       73.F     465.376     -93.642     9     7     28.F     26.F     -332.863       58.F     100.613     -181.246     21     7     15.F     13.F     -486.553       -888.131     -888.131     -603.942	78.F         750.162         -0.157         22         6         52.F         47.F         -36.528         26851.           80.F         834.074         0.000         27746.         0.000         27746.           79.F         790.626         -0.048         22         4         53.F         53.F         -24.176         27746.           76.F         644.582         -2.645         30         8         46.F         43.F         -109.849         26851.           73.F         277.590         -30.903         28         8         32.F         31.F         -283.595         27746.           73.F         465.376         -93.642         9         7         28.F         26.F         -332.863         26851.           58.F         100.613         -181.246         21         7         15.F         13.F         -486.553         27746.           -888.131         -888.131         -603.942         -603.942         -603.942         -603.942

7

EZDOR - BLITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING EZDOR - BLITE READING, PA 19603
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE

WEATHER FILE- BALTIMORE, MD

DOE-2.1D 8/ 4/1995 14:51:11 PDL RUN 1

FUEL-OIL		265009.74	00.00	00.0	00.00	00.0	00.0	00.0	0.00	265009.74
BLECTRICITY		00.0	88718.25	43914.33	00.0	00.0	122138.23	00.0	106363.19	361134.03
ENERGY TYPE IN SITE MBTU -	CATEGORY OF USE	SPACE HEAT	SPACE COOL	HVAC AUX	DOM HOT WIR	AUX SOLAR	LIGHTS	VERT TRANS	MISC EQUIP	TOTAL

263.0 KBTU/SQFT-YR NET-AREA 566.8 KBTU/SQFT-YR NET-AREA 263.0 KBTU/SQFT-YR GROSS-AREA 566.8 KBTU/SQFT-YR GROSS-AREA TOTAL SITE ENERGY 626148.25 MBTU TOTAL SOURCE ENERGY 1349509.58 MBTU

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 77.8 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 14.8

NOTE BLECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENIECH READING, REP_2		- HOURLY-REPORT				-	PAGE 1- 1
миррин	OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	OPEN-CEN T-CHLR SIZES RUNNING	CERAMIC- TWR FAN ELEC BTU/HR	CERAMIC- TWR PUMP ELEC BTU/HR		
	( 1)	( 3)	(9)	(20)	(21)		
MONTHLY MN MX SM SM AV	MONTHLY SUMMARY (JAN) MN 14269089. MX 16980288. SM 10899585024. AV 14649980.	3251600. 6503195. 3193040384. 4291721.	1. 2. 982. 1.		400831. 801662. 393616128. 528054.		
MONTHLY MN MX SM SM AV	SUMMARY (FEB) 14362711. 18921956. 9939263488. 14790571.	3251599. 6503195. 3378180352. 5027054.	1. 2. 1039. 2.	298830. 596767. 888.	400831. 801662. 416465648. 619738.		
MONTHLY MN MX SM SM AV	SUMMARY (MAR) 3318682. 29560824. 11021732864. 14814157.	3251600. 6503196. 3963100416. 5326748.	1. 2. 1219. 2.	439233. 8295698. 11150.	400831. 801662. 488613216. 656738.		
MONTHLY MN MX SM AV	r SUMMARY (APR) 3281531. 29950220. 11039242240. 15332281.	3251611. 6503196. 404161640. 5613357.	1. 2. 1244. 2.	0. 638825. 31381862. 43586.	400831. 801662. 498633952. 692547.		
MONTHLY MN MX SM SM	SUMMARY (MAY) 3334934. 30345800. 13192915968. 17732414.	3251602. 6503156. 3932094464. 5285073.	1. 2. 1217. 2.	0. 863296. 145967392. 196193.	400831. 801662. 487811584. 65561.		
MONTHLY MN MX SM SM AV	MONTHLY SUMMARY (JUN) MN 4859372. MX 45518700. SM 23450791936. AV 32570544.	9406573. 10312154. 6982861824. 9698419.	3. 3. 2160. 3.	0. 1113640. 487895200. 677632.	1202494. 1202494. 865795328. 1202494.		
MONTHLY MN MX SM SM AV	( SUMMARY (JUL) 6671771. 88498208. 33750382592. 45363416.	3253382. 22523626. 11364980736. 15275512.	1. 6. 3397. 5.	0. 1113640. 657224448. 883366.	400831. 2404987. 1361623552. 1830139.		

OPEN-CEI T-CHLR LOAD BTU/HR							
OPEN T-CH LOAD BTU/						 	 
LOAD LOAD	OPEN-CEN	OPEN-CEN	OPEN-CEN	CERAMIC-	CERAMIC-		
/UTB	1	BLECTRIC	SIZES	PAN	PUMP		
	HR	USE BTU/HR	KUNNING	BTU/HR	BTU/HR		
!	( 1)	( 3)	(9)	(20)	(21)		
Y SUMP	RY (AUG)		,	•	100004		
MX W	48/2588. 89214016.	3252821.	. 6	1113640.	2404987.		
323	32320184320.	12173550592.	3691,	657134016.	1479467776.		
	43441108.	16362299.	5.	883245.	1988532.		
MONTHLY SUMMARY (SEP)	RY (SEP)						
MN 3	3319838.	7532026.	e,	.0	1202494.		
4	45518700.	10675864.	м.	1113640.	1202494.		•
194	19423592448.	6978715136.	2160.	386825920.	865795328.		
	26977212.	9692660.	e.	537258.	1202494.		
MONTHI, Y. STIMMA	STIMMARY (OCT.)						
	3358148.	7618818.		0.	1202494.		
	44264856.	9796985.		978561.	1202494.		
SM 11843	11843082240.	7200978944.	22	134693824.	894655168.		
AV 15	15918121.	9678735.	6	181040.	1202494.		
MONTHLY SUMMARY (NOV)	ARY (NOV)						
	3304733.	3251598.	<u>.</u>	°	400831.		
	30345800.	6503196.		972711.	801662.		
	11513944064.	3672512000.	. 1132.	43631744.	453740768.		
AV 15	15991589.	5100711.	2.	.00909	630196.		
MONTHLY SUMMA	SUMMARY (DEC)	٠					
MN 14	14216265.	3251598.			400831.		
	22376458.	6503194.	2.	318670.	801662.		
	10922465280.	3001122816.	923.	2158195.	369967200.		
AV 14	14680733.	4033767.	1.	2901.	497268.		
YEARLY SUMMARY	RY						
	3281531	3251598.	1.	0	400831.		
	89214016	22523626		1113640	2404987	٠	
	100317176001	600000000000000000000000000000000000000	2130	25555	8576187784		
TECET NO			•		310010		

DOE-2.1D 8/ 4/1995 14:51:11 EDL RUN 1 EZDOE - ELITE SOFTWARE DEVELOPMENT INC RNTECH ENGINEBRING EZDOB - E READING, PA 19603 REPORT- ES-E SUPPARY OF ELECTRICITY CHARGES

320945.44 403996.88 347019.63 362762.19 352381.16 369515.69 415445.00 401513.63 0.00 0.00 0.00 DEMAND CHARGE (\$) 17884. 17965. 18216. 14449. 14150. 14416. 18067. 18304. 18366. 14089. 13901. 14243. 11376. 11364. 11507. 11723. 11693. 11894. 11938. 11801. 12086. 12278. 12062. 12111. 11428. 11347. 11347. MEASURED DEMAND (KW) 17884. 17965. 18216. 14089. 13901. 14243. 14449. 14150. 14416. 18067. 18304. 18366. 11376. 11364. 11507. 11723. 11693. 11894. 11938. 11801. 12086. 12278. 12062. 12111. 11428. 11347. 11347. 175312.33 96398.21 129803.09 173120.86 98437.02 132438.98 171789.52 80272.15 94957.97 157655.52 75110.67 88179.26 162075.27 92419.10 108267.82 175782.73 81624.10 94974.30 173705.61 89331.58 106478.48 162526.81 107941.62 144976.55 198621.05 126142.18 169772.00 180381.66 143798.78 193563.88 ENERGY CHARGE (\$) CONSUMPTION BY C-A (KWH) 4780200. 2296630. 2338331. 5841795. 2683876. 2738258. 5305343. 3059548. 3121998. 5156245. 2051026. 2093598. 4051882. 2009111. 2042789. 4394568. 1774437. 1791968. 4342640. 1941991. 2009028. 4294738. 1745047. 1791660. 3941388. 1632841. 1663760. LENGTH (HR/MO) 400 160 160 392 176 176 368 176 176 424 160 160 376 184 184 400 160 160 408 168 168 376 184 184 408 168 168 368 152 152 CHARGE-ASSIGNMENT (U-NAME) OFF_PWIN INT_WIN ON_PWIN OFF_PWIN INT_WIN ON_PWIN OFF_PWIN INT_WIN ON_PWIN OFF_PWIN INT_WIN ON_PWIN OFF_PSUM INT_SUM ON_PSUM OPF_PSUM INT_SUM ON_PSUM OFF_PSUM INT_SUM ON_PSUM OFF_PWIN INT_WIN ON_PWIN OPP_PSUM INT_SUM ON_PSUM 1 1 1 1 1 MONTH S JAN FEB MAR APR MAY Ę Ę AUG SEP

DOE-2.1D 8/ 4/1995 14:51:11 EDL RUN 1 --CONTINUED------BZDOB - ELITE SOFTWARE DEVELOPMENT INC ENTECH BNGINBERING BZDOB READING, PA 19603
REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

342510.19 TOTAL CHARGES (\$) 346373.84 0.00 DEMAND CHARGE (\$) 0.00 0.00 BILLING DEMAND (KW) 11543. 11394. 11447. 12151. 12344. 12355. 11543.. 11394. 11447. MEASURED DEMAND (KW) 12151. 12344. 12355. 177353.13 76383.18 88773.87 173298.25 79572.63 93502.97 ENERGY CHARGE (\$) 4674743.00 CONSUMPTION BY C-A (KWH) 4332456. 1729840. 1764207. 4433828. 1660504. 1674979. 105812808. LENGTH (HR/MO) 424 160 160 400 160 160 CHARGE-ASSIGNMENT (U-NAME) OFF_PWIN INT_WIN ON_PWIN OPP_PWIN INT_WIN ON_PWIN TOTAL MONTH -----NOV DEC



	ENTECH E	ENGINEERING	BRING		50961	EZDOE	EZDOE - ELITE SOFTWARE DEVELOPMENT INC	) EVELOPMENT	INC.		DOE	DOE-2.1D	8/ 4/1995	14:57:51 SD	SDL RUN 1	
REPOR	REPORT- SS-D	PLANT	MON	HLY I	OADS	PLANT MONTHLY LOADS SUMMARY FOR	FOR	DEFAULT-PLANT	ANT		_		WEATHER FILE- BALTIMORE,	BALTIMORE, MD	0	
															1	
		1 1		0	OLIN	9	1 1 1 1	;	1	M M	H	;		8 L	м	
							MAXIMUM						MAXIMUM	BLEC-	MAXIMUM	
	COOLING	ENG Sev	TIME OF MAX		DRY- BIII.B	WET-	COOLING	HEATING	TIME		DRY-	WET-	HEATING	TRICAL	BLEC	
MONTH		Ē	ВΥ		TEMP	TEMP	(KBTU/HR)	(MBTU)	: - : : : : : : : : : : : : : : : : : :		TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)	
JAN	9634.85254	254	6	13 5	59.F	56.P	15438.476 -3	-39623.262	31	7	<b>4.</b> 9	S.	-102547,930	7270806.	9971.350	
FEB	8799.80273	273	28 1	15 6	62.P	55.F	17781.527 -3(	-30884.990	e	7	6.P	4 · F	-103518.047	6569549.	10069.745	
MAR	9382.95605	505	1	9	65.F	62.F	33780.859 -23	-22393.857	2	4	22.F	19.F	-70270.938	7292636.	10357.803	
APR	7025.15479	479	20 1	14	78.F	66.F	42596.129 -1	-10468.364	ω	60	28.F	26.F	-57792.824	7109653.	10505.164	
MAY	12803.62305	305	28 1	14	74.F	69.F	54469.211 -:	-3313.825	10	S	35.F	29.F	-42029.590	7469056.	10729.596	
JUN	29287.27734	734	28 1	17 9	91.F	77.F	109789.789	-101.104	22	9	52.F	47.F	-8006.262	7480005.	11567.011	
JUL	41919.21875	875	24 1	19 8	89.F	80.F	121383.313	-12.145	21	ĸ	56.F	54.F	-3119.688	7872504.	11538.737	
AUG	37640.51563	563	31 1	15 9	90.F	79.F	114784.570	-41.309	22	4	53.F	53.F	-6558.915	7824472.	11563.431	
SEP	23077.15430	430	2	12	89.F	77.F	97648.555	-697.192	30	00	46.F	43.F	-19632.287	7396297.	11438,138	
ocr	8625.91211	211	13 1	3 9 1	82.F	66.F	45704.246 -	-5972.738	28	<b>6</b> 0	32.F	31.F	-48690.063	7422935.	10735.628	
NOV	10347.96973	973	2	14 8	82.F	73.F	71920.500 -1	-18014.441	23	7	28.F	25.F	-59500.418	7085784.	10737.224	
DEC	9658.11523		59	9	59.F	58.F	20833.111 -3	-33491.211	21	7	15.F	13.F	-84441.992	7271128.	10005.925	
TOTAI	TOTAL 208202.516	516					-16	-165014.406						88066008.		
MAX							121383.313						-103518.047		11567.011	

RZDOR - ELITE SOPTWARE DEVELOPMENT INC ENTECH ENGINEERING REDOR - READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

DOR-2.1D 8/ 4/1995 14:57:51 SDL RUN 1

WEATHER FILE- BALTIMORE, MD

MAXIMUM ELEC LOAD (KW) 307.500 189.324 307.500 242.351 198.148 215.780 256.379 307.045 306.705 297.654 247.456 267.826 188.291 - - - BIBC - - -ELEC-TRICAL ENERGY (KWH) 130046. 117846. 132585. 133899. 151488. 182953. 161145. 144546. 130865. 130079. 169518. 187326. 1772292 -878.519 MAXIMUM HEATING LOAD (KBTU/HR) 0.000 0.000 0.000 000.0 -698.847 -552.805 -313.845 -388.808 -560,585 -1154.867 -1154.867 -1110.722 - - - - HEATING - -WET-BULB TEMP υ Ή 26.F 4.1 23.F 20.F 36.F 30.F 32.F 31.F 28.F 25.F 16.F 14.F 28.F 6.P DRY-BULB TEMP 6.F TIME OF MAX DY HR 9 7 7 2 3 28 23 22 -7.453 -14.802 HEATING ENERGY (MBTU) 0.000 0.000 0.000 -278.855 -353.549 -133.363 -41.719 0.000 -102.121 -254.143 -1186.004 MAXIMUM COOLING LOAD (KBTU/HR) 244.468 1784.570 1610.055 1017.753 1314.795 230.138 379.813 621,530 954.990 1138.944 1807.242 1823.464 1823.464 WET-BULB TEMP 66.F - - - - - - COOLING -59.F 56.F 62.F 56.F 74.F 56.F 82.F 66.F 91.F 77.F 89.F 80.F 89.F 79.F 92.F 76.F 78.F 66.F 82.F 73.F 59.F 58.F DRY-BULB TEMP 78.F TIMB OF MAX DY HR 2 14 14 14 9 13 16 14 21 17 24 19 13 17 29 16 28 17 53 31 7 28 20 COOLING ENERGY (MBTU) 3.76228 83.95036 4.23714 346.24854 655.50903 850.41962 791,33453 542.79761 237.33513 3707.636 10,06035 46.57166 135.40771 MONTH TOTAL AUG DEC JAN MAY Ę TD, SEP Ö NOV MAX FEB MAR APR

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DOR-2.1D 8/4/1995 EZDOE - ELITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEBRING EZDOE -READING, PA 19603 RRPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

WEATHER FILE- BALTIMORE, MD 48 GENERAL

14:57:51 SDL RUN 1

MAXIMUM ELEC LOAD (KW) 652,030 652.030 652.030 652.030 652.030 652.030 652.030 652.030 652.030 652.030 652.030 652.030 652.030 - - BLBC - -485111. ELEC-TRICAL ENERGY (KWH) 485111. 438165. 485111. 469462. 485111. 469462. 485111. 485111. 469462. 485111. 469462. 5711546. -11053.120 MAXIMUM HEATING LOAD (KBTU/HR) 0.000 -6295.497 -13767.471 -9075.059 -7370.178 -5366.960 -438.653 -262.859 -2245.781 -7500.453 -13554.217 -13767.471 43.F 26.P 29.F WET-BULB TEMP 5.8 4.4 52.F 47.F 53.F 53.F 28.F 25.F 15.F 13.F ---HBATING-22.F 19.F 28.F 35.F 46.F 32.F б. Р DRY-BULB TEMP 6.Р 4 8 Ŋ 9 4 8 TIMB OF MAX DY HR 7 10 52 30 58 23 21 3 22 HEATING ENERGY (MBTU) -4946.103 -1157.715 -329.935 -1.025 0.00 -0.519 -43.978 -630.843 -2046.842 -4073.159 -19633.496 2615,635 -3787.719 MAXIMUM COOLING LOAD (KBTU/HR) 2457.180 1516.809 2290.810 5693.973 5460.603 10704.424 17372.785 19358.975 18050.031 14673.017 8499.121 13227.844 19358.975 WET-BULB TEMP 59.F 52.F 62.F 56.P 75.F 57.F 74.F 61.F 74.F 69.F 91.F 77.F 96.F 80.F 90.F 79.F 92.F 76.F 75.F 64.F 75.F 72.F 59.F 58.F - - COOLING -DRY-BULB TEMP 29 6 TIME OF MAX DY HR 28 17 14 31 15 14 8 13 12 22 28 16 29 15 19 11 28 14 æ 52 ~ COOLING ENERGY (MBTU) 1855.74866 4721.85889 377.85583 346.14203 511.20206 829.43591 3809.29175 5262.93701 1325.64771 2952.61914 757.01154 23116.553 367.62271 TOTAL MONTH AUG ç MAY Ę Ę SEP NOV Α¥ JAN PEB MAR APR

DOE-2.1D 8/ 4/1995 14:57:51 SDL RUN 1 WEATHER FILE- BALTIMORE, MD RZDOR - BLITE SOPTWARE DEVELOPMENT INC 49_DEABGU READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

B C	MAXIMUM BLEC LOAD (KW)	648.942	714.355	816.498	947.294	1016.363	1232.494	1267.872	1239.935	1206.233	943.979	981.688	648.942		1267.872
	BLECTRICAL BNERGY (KWH)	412361.	373265.	419191.	425223.	492952.	574635.	641819.	622116.	534229.	460637.	414234.	412356.	5782988.	
	MAXIMUM HEATING LOAD (KBTU/HR)	-6552.654	-6192.252	-4316.753	-3683.097	-2423.166	0.000	0.000	0.000	-865.157	-2792.610	-3649.783	-5207.724		-6552.654
1	WET- BULB TEMP	5. F	4 · F	20.F	26.P	30.F				43.F	31.F	25.F	14.F		
ATIN	DRY- BULB TEMP	6.Р	6.P	24.P	28.F	36.P				46.P	32.F	28.F	16.F		
×	TIMB MAX HR	7	7	7	œ	7				œ	œ	7	7		
1	TIMB OF MAX DY HR	31	٣	2	89	10				30	28	23	22		
1	HEATING ENERGY (MBTU)	-2321.121	-1723.335	-1050.020	-433.090	-91.533	0.000	0.000	0.000	-5.564	-211.525	-931.513	-1992.293	-8759.996	
1 1 1	MAXIMUM COOLING LOAD (KBTU/HR)	86.974	1078.706	2535.769	4097.271	5098.171	7534.420	8097.245	7578.607	6941.080	4312.102	5039.326	0.000		8097.245
g	WET- BULB TEMP	49.P	55.7	56.F	63.F	66.F	77.F	79.F	77.F	72.F	66.P	72.F			
COOLIA	DRY- BULB TEMP	57.F	60.P	74.F	83.F	82.F	91.F	91.F	88.F	89.P	78.F	81.F			
0	TIME MAX HR	16	11	16	11	11	11	18	18	18	17	1.5			
:	TIME OF MAX DY HR	22	28	59	19	21	8	25	31	7	13	7			
1	COOLING ENERGY (MBTU)	0.08697	13.55137	111.78378	414.73886	1247.14087	2561.60107	3339.98901	3062.78784	2026.85510	749.69574	234.53732	0.00000	13762.765	
	MONTH	JAN	FEB	MAR	APR	MAY	SUN	305	AUG	SEP	OCT	NOV	DEC	TOTAL	MAX

ENTECH BNGINEERING EZDOB - BLITE SOFTWARE DEVELOPMENT INC READING, PA 19603 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 54_AFIPSP

JARY FOR 54_APIPSP . WEATHER FILE- BALTIMORE, MD

DOR-2.1D 8/ 4/1995 14:57:51 SDL RUN 1

MAXIMUM ELEC LOAD (KW) 1775.343 2207.408 1963.790 1405.524 2244.603 1360.231 1398.740 1581.028 1811,050 2244.603 2222.444 2143.444 1845.173 - - - B L B C - -929378. BLEC-TRICAL ENERGY (KWH) 1025622. 929673. 1123927. 1244364. 1088996. 928728. 840621. 941856. 938592. 1220410. 1018756. 12231591. MAXIMUM HEATING LOAD (KBTU/HR) -8714.624 0.000 000.0 0.000 -10883.411 -10846.154 -6943.017 -5420.951 -3759.638 -1150.482 -4528,100 -5540.527 -10883.411 WET-BULB TEMP 4 · F 4.7 26.P --HEATING -46.F 43.F 22.F 19.F 35.F 30.F 32.F 31.F 28.F 25.F 15.F 13.F 4.9 6.F 28.F DRY-BULB TEMP TIME OF MAX DY HR 9 4 8 ~ 17 19 1 2 30 77 28 23 -2872.135 HEATING ENERGY (MBTU) -3644.374 -675.773 -172.234 0.000 0.000 0.000 -13.968 -347.408 -1295.320 -1754,915 -13504,005 -2727.859 MAXIMUM COOLING LOAD (KBTU/HR) 2553.901 7287.734 8367.409 10760.764 1900.002 2444.933 5053.963 14407.431 13619.016 13614.819 12181.978 8408.471 14407.431 WET-BULB TEMP 57.F 64.F 57.F - - - - - - COOLING -59.F 56.F 62.F 56.F 77.F 68.F 91.F 77.F 91.F 77.F 93.F 77.F 92.F 76.F 82.F 67.F 78.F 72.F 75.P DRY-BULB TEMP 83.F 62.F TIME OF MAX DY HR 28 17 9 18 9 13 14 14 11 2 14 14 28 16 19 13 13 14 2 11 59 13 18 28 37.99460 COOLING ENERGY (MBTU) 33.93944 1536.33984 3325.58276 4648.01465 2898.02759 1446.15845 19669.221 49.84756 235.70625 4300.96143 497.43384 659.23621 TOTAL MONTH SEP MAY Ę Ę AUG ပ္ပ NOV JAN FEB MAR APR Æ

EZDOE - ELITE SOFTWARE DEVELOPMENT INC 48 HEATON READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

WEATHER FILE- BALTIMORE, MD

DOE-2.1D 8/ 4/1995 14:57:51 SDL RUN 1

MAXIMUM BLEC LOAD (KW) 5805.631 5805.631 5805.631 5805.631 5805.631 5805.631 5805.631 5805.631 5805.631 5805.631 5805.631 5805.631 5805.631 - - - B L B C - - -4319428. BLEC-TRICAL ENERGY (KWH) 3901419. 4319428. 4180095. 4319428. 4180095. 4319428. 4319428. 4180095. 4319428. 4180095. 4319428. 50854012. MAXIMUM HEATING LOAD (KBTU/HR) -13685,553 -58789.977 -34681.801 -26004.721 -7333.777 -3119.688 -6269.707 -29529.379 -35994.434 -49338.922 -59869.523 -59869.523 -41758.391 5.F 29.F 54.F 53.F 43.F 31.F 25.F WET-BULB TEMP 4.1 25.P 47.F 15.F 13.F - - - - - H B A T I N G -19.F 22.F 35.F 52.F 56.F 46.P 32.F 6.8 53.F 6.F 29.F 28.F DRY-BULB TEMP w æ TIME OF MAX DY HR 9 Ŋ 4 31 2 22 21 22 30 58 23 7 HEATING ENERGY (MBTU) -2463.055 -12.145 -603.888 -4287.764 -12006.080 -20908.521 -24225.752 -99.724 -40.739 -14726.472 -7254.164 -105880.695 -19252.305 MAXIMUM COOLING LOAD (KBTU/HR) 11693.745 12386.813 23099.789 32021.797 40371.461 74764.172 82739.453 78237.719 67770.242 35515.574 52723.781 15177.600 82739.453 13.F 11.F 63.F 78.F 79.F WET-BULB TEMP 78.F 69.F 87.F 80.F 89.F 77.F 82.F 67.F 82.F 73.F 59.F 58.F 62.F 55.F 65.P 62.P -- COOLING -86.F 83.F 89.F DRY-BULB TEMP 12 14 TIME OF MAX DY HR 15 5 9 28 17 16 50 14 14 15 17 30 24 31 N 13 ~ 28 13 29 COOLING ENERGY (MBTU) 8627.30176 8747.39160 JUL 29877.50781 7820.42871 7978.51904 4892.73340 20795.54492 26858.78711 16304.99121 5556.35742 8476.99023 8641.05078 TOTAL 154577.203 MONTH NDS AUG SEP

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DOB-2.1D 8/4/1995 BZDOR - ELITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING EZDOE -READING, PA 19603 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

WEATHER FILE- BALTIMORE, MD

14:57:51 SDL RUN 1

48 ADMIN

MAXIMUM ELEC LOAD (KW) 306.303 306.303 306.303 306.303 306.303 306,303 306.303 306.303 306.303 306.303 306.303 - - - BLEC - - -BLEC-TRICAL ENERGY (KWH) 220537. 227888. 227888. 227888. 205835. 227888. 220537. 227888. 220537. 227888. 220537. 227888. 2682954. MAXIMUM HEATING LOAD (KBTU/HR) -36.344 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.00 0.000 -65.016 -65.016 WET-BULB TEMP 5.8 4 · F - - - - - - HEATING -8·9 DRY-BULB TEMP ₽. TIME OF MAX DY HR 31 HEATING ENERGY (MBTU) -0.633 -0.126 0.000 0.000 0.000 0.000 0.000 0.000 -0.759 0.000 0.000 0.000 0.000 MAXIMUM COOLING LOAD (XBTU/HR) 1293.752 779.105 1086.225 1412.813 1888.489 1952,547 1925.568 1783.525 1299.625 1496.991 815.924 1952.547 843.858 WET-BULB TEMP - - - - - - - COOLING -59.F 56.F 62.F 56.F 75.F 57.F 83.F 63.F 82.F 66.F 86.F 78.F 96.F 80.F 90.F 79.F 92.F 76.F 82.F 67.F 82.F 73.F 59.F 58.F DRY-BULB TEMP 2 14 TIME OF MAX DY HR 9 13 19 16 30 16 25 14 31 15 13 14 28 16 29 15 21 17 408,53656 479.21790 662.79010 863.52612 1004.94971 281.10031 292.42172 963.56244 775.51825 566.55206 394.64178 272.36353 6965.189 MONTH TOTAL 30, AUG DOC: NOV DEC APR MAY NDS. SEP MAX

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BZDOB - ELITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING EZDOB READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

48 WRAIR

WEATHER FILE- BALTIMORE, MD

DOR-2.1D 8/ 4/1995 14:57:51 SDL RUN 1

	MAXIMUM ELEC	LOAD (KW)	896.321	896.321	896.321	896.321	896.321	896.321	896.321	896.321	896.321	896.321	896.321	896.321		896.321
B L B	BLEC- TRICAL	ENERGY (KWH)	666860.	602325.	666860.	645348.	666860.	645348.	666860.	666860.	645348.	666860.	645348.	666860.	7852393.	
	MAXIMUM HEATING	LOAD (KBTU/HR)	-10390,130	-10552,968	-6906.917	-5577.285	-4043.513	-197.303	0.000	-2.173	-1575.466	-4756.769	-5677.383	-8440.931		-10552.968
a	WET-	BULB	4. Fi	4.F	19.F	26.F	30.F	47.F		53.F	43.F	31.F	25.F	13.F		
ATI	DRY-	BULB	6.8	6.P	22.F	28.F	35.F	52.F		53.F	46.F	32.F	28.F	15.F		
×	TIME	XX H	19	7	4	œ	7	9		4	œ	œ	7:	7		
1	£	OF MAX DY HR	17	m	S	œ	11	22		22	30	28	23	21		
1	HEATING	ENERGY (MBTU)	-3733.821	-2848.008	-1946.061	-839.546	-232.376	-0.197	000.0	-0.002	-27.149	-447.955	-1505.965	-3053.139	-14634.200	
	MAXIMUM COOLING	LOAD (KBTU/HR)	1327.636	1916.729	4097.519	5029.596	6573,306	14160.387	15893.400	14972.331	12372.278	7179.523	9163.509	2047.799		15893.400
י ט צ	WBT-	BULB	52.F	56.P	62.F	66.F	68.P	78.F	80.F	79.F	76.F	65.F	73.F	58.1		
0 1 1	DRY-	BULB	59.F	62.F	65.F	78.F	79.F	86.F	89.F	90.F	92.F	70.8	82.F	59.4		
0 0 -	TIME	¥ ¥	22	16	9	14	17	11	19	15	14	15	14	ø		
1	E	OF MAX DY HR	ω,	28	т	20	56	30	24	31	7	30	8	62		
1 1 1	COOLING	ENERGY (MBTU)	293.77478	277.17239	383.66605	647.43750	1246.67529	3278.01929	5056.65381	4457.23096	2596.07690	928.64618	586.19873	301.13696	20052.000	
		MONTH	JAN	PEB	MAR	APR	MAY	NOS	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MAX

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EZDOE - ELITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEBRING EZDOB - READING, PA 19603
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

DOR-2.1D 8/4/1995 14:57:51 SDL RUN 1 48 FITNESS

WEATHER FILE- BALTIMORE, MD

96.769 96.769 96.769 96.769 96.769 96.769 96.769 96.769 96.769 96.769 96.769 ---BIBC---ELEC-TRICAL ENERGY (KWH) 71996. 65029. 71996. 69674. 71996. 69674. 71996. 71996. 69674. 71996. 69674. 71996. 847659. 0.000 0.000 MAXIMUM HEATING LOAD (KBTU/HR) -56.918 0.000 -332.823 0.000 -244.416 -622.629 -562.495 -244.698 -115.302 -622.629 -458.221 WET-BULB TEMP 20.F -----HEATING -74 74 4 · F 29.F 24.F 36.F 30.F 32.F 31.F 28.F 25.F 16.F 14.F 23.F DRY-BULB TEMP TIME OF MAX DY HR 8 7 22 6 9 28 31 23 HEATING ENERGY (MBTU) -47.893 0.000 0.000 -1.537 -131.880 -0.504 0.000 0.000 -32.956 -178.733 -122.525 -11.274 -527.301 MAXIMUM COOLING LOAD (KBTU/HR) 235.216 209.185 269.268 413.914 621.645 688.233 1124.610 1221.821 1116.493 1012.247 619.798 804.560 1221.821 56.F - - - - - - - COOLING -WET-BULB TEMP 59.F 56.F 62.F 56.P 78.F 66.F 82.F 66.F 91.F 77.F 90.F 78.F 89.F 72.F 78.F 66.F 82.F 73.F 59.F 58.F 74.F DRY-BULB TEMP TIMB OF MAX DY HR 29 6 16 20 14 17 18 31 16 14 9 13 28 16 28 17 1 18 13 17 7 59 21 25 147.63992 424.05087 324.61438 206.64084 104.90633 50.83022 50.09922 82,76071 235.11713 373.58932 471.73621 2522.576 50.65611 MONTH TOTAL

NOV DEC MAX

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DOR-2.1D 8/ 4/1995 14:57:51 SDL RUN 1 EZDOE - ELITE SOPTWARE DEVELOPMENT INC ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVEI READING, PA 19603 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 48_MRI

WEATHER FILE- BALTIMORE, MD

E C	MAXIMUM BLEC LOAD (KW)	37.293	37.293	37.293	37.293	37.293	37.293	37.293	37.293	37.293	37.293	37.293	37.293		37.293
B L	ELEC- TRICAL ENERGY (KWH)	27746.	25061.	27746.	26851.	27746.	26851.	27746.	27746.	26851.	27746.	26851.	27746.	326673.	
1 1 1 1 1 1	MAXIMUM HEATING LOAD (KBTU/HR)	-595,930	-603.942	-401.397	-327.398	-245.715	-36.528	0.000	-24.176	-109.849	-283.595	-332.863	-486.553		-603.942
- 5	WET- BULB TEMP	4. 7.	4· F	19.F	27.F	30.F	47.F		53.F	43.F	31.F	26.F	13.F		
ATIN	DRY- BULB TEMP	6 . F	6.F	22.F	28.F	35.F	52.F		53.F	46.F	32.F	28.F	15.F		
H B 3	TIME MAX HR	19	7	4	٠.	7	9		4	80	80	7	7		
1	TIME OF MAX DY HR	17	ю	Ŋ	œ	11	22		22	30	28	6	21		
1 1 1	HEATING ENERGY (MBTU)	-219.188	-168.980	-119.506	-55.078	-16.736	-0.157	0.000	-0.048	-2.645	-30.903	-93.642	-181.246	-888.131	
1 1 1	MAXIMUM COOLING LOAD (KBTU/HR)	60.567	90.158	210.989	249.995	331.887	750.162	834.074	790.626	644.582	277.590	465.376	100.613		834.074
	WET- BULB TEMP	52.F	56.F	62.F	66.P	68.F	78.F	80.F	79.F	76.F	64.F	73 . F	58.P		
- COOFIN	DRY- BULB TEMP	59.F	62.F	65.F	78.F	79.F	86.F	96.F	90.F	92.F	67.F	82.F	59.F		
0	TIME MAX HR	22	16	9	14	11	17	14	15	14	11	14	9		
	TIME OF MAX DY HR	æ	28	н	20	26	30	25	31	7	8	8	59		
1 1 1 1 1	COOLING ENERGY (MBTU)	14.40490	13.53719	18.27430	28.69227	55.89507	167.32713	245.47079	215.03352	123.32504	42.06193	28.22661	14.86966	967.163	
	MONTH	JAN	PEB	MAR	APR	MAY	NOS	JE.	AUG	SEP	oct	NOV	DEC	TOTAL	MAX

ENTECH ENGINEERING RIDOR - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 8/4/1995 14:57:51
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE

DOR-2.1D 8/ 4/1995 14:57:51 PDL RUN 1

WEATHER FILE- BALTIMORE, MD

FUEL-OIL		253635.49	0.00	00.00	0.00	0.00	00.00	00.00	0.00	
BLECTRICITY		00.00	88738.61	44463.76	00.0	0.00	149795.82	00.00	106361.75	
ENERGY TYPE IN SITE MBTU -	CATEGORY OF USE	SPACE HEAT	SPACE COOL	HVAC AUX	DOM HOT WTR	AUX SOLAR	LIGHTS	VERT TRANS	MISC BQUIP	

270.1 KBTU/SQFT-YR NBT-AREA 597.7 KBTU/SQFT-YR NET-AREA 270.1 KBTU/SQFT-YR GROSS-AREA 597.7 KBTU/SQFT-YR GROSS-AREA TOTAL SITE ENERGY 643008.30 MBTU TOTAL SOURCE ENERGY 1422922.74 MBTU

253635.49

389359.96

TOTAL

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 76.1 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 16.4

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

DOE-2.1D 8/ 4/1995 14:57:51 EDL RUN 1 EZDOR - BLITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING REDOR - READING, PA 19603
REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

TOTAL CHARGES (\$) 351503.06 551264.75 380430.47 395317.00 370085.38 398101,38 446875.53 526751.69 432444.56 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 DEMAND CHARGE ŝ BILLING DEMAND (KW) 12940. 12763. 13059. 15443. 15146. 15417. 19066. 19310. 19365. 15083. 14907. 15238. 12396. 12291. 12292. 12343. 12333. 12494. 12724. 12673. 12871. 13276. 13056. 13121. 18884. 18963. 19213. 14353. 13972. 14450. MEASURED DEMAND (KW) 12724. 12673. 12871. 12940. 12763. 13059. 15443. 15146. 15417. 19066. 19310. 19365. 15083. 14907. 15238. 12396. 12291. 12292. 12343. 12333. 12494. 13276. 13056. 13121. 18884. 18963. 19213. 14353. 13972. 14450. 176950.36 100754.14 117612.49 213172.09 133775.31 179804.27 188950.70 103841.06 139652.80 186066.19 106014.69 142595.30 184004.52 85271.43 100809.45 187590.73 95868.20 114642.45 174952.09 116107.09 155816.34 193649.20 152544.66 205070.86 188109.38 88554.31 103766.78 172885.67 82166.03 96451.35 ENERGY CHARGE (\$) CONSUMPTION BY C-A (KWH) 5145650. 2470364. 2513167. 4702734. 1925094. 1957864. 4423759. 2190307. 2219104. 6269767. 2846283. 2900069. 5557374. 2209384. 2252464. 4322142. 1786218. 1819837. 4600113. 1853727. 1902065. 4689768. 2084091. 2163065. 5472535. 2255632. 2299924. 5695565. 3245631. 3307594. LENGTH (HR/MO) 368 176 176 368 152 152 376 184 184 400 160 160 392 176 176 424 160 160 376 184 184 400 160 160 408 168 168 CHARGE-ASSIGNMENT (U-NAME) OFF_PWIN INT_WIN ON_PWIN OFF_PWIN INT_WIN ON_PWIN OFF_PWIN INT_WIN ON_PWIN OFF_PWIN INT_WIN ON_PWIN OFF_PSUM INT_SUM ON_PSUM OPF_PSUM INT_SUM ON_PSUM OPF_PSUM INT_SUM ON_PSUM OFF_PSUM INT_SUM ON_PSUM OFF PSUM NUT_SUM MONTH . . . . . . . . . JAN MAY Ę ΪŒ AUG SRP Ç, MAR APR

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ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 8/ 4/1995 14:57:51 EDL RUN 1
READING, PA 19603
REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES 375409.56 TOTAL CHARGES (\$) 375742.25 0.00 0.00 00.0 ------DEMAND CHARGE (\$) BILLING DEMAND (KW) 13139. 13344. 13355. 12520. 12365. 12415. MEASURED DEMAND (KW) 12520. 12365. 12415. 13139. 13344. 13355. 187707.31 86456.26 101578.70 194396.41 83532.77 97480.38 5038601.50 ENERGY CHARGE (\$) CONSUMPTION BY C-A (KWH) 4692683. 1879484. 1916579. 4859910. 1815930. 1839252. 114085176. LENGTH (HR/MO) 424 160 160 400 160 160 CHARGE-ASS IGNMENT (U-NAME) OFF_PWIN INT_WIN ON_PWIN OFF_PWIN INT_WIN ON_PWIN MONTH TOTAL NOV DEC

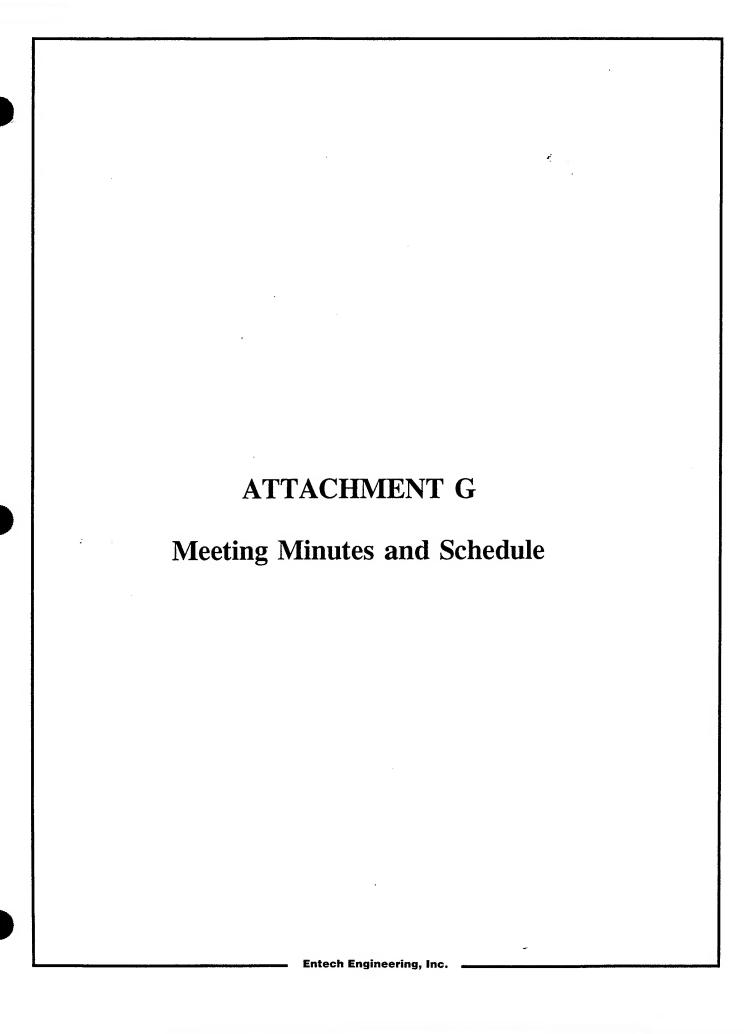
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#### **Consulting Engineers**



Principals:
Daniel J. Castellani, P.E.

Thomas M. McMahon, P.E. William M. McMahon Jr., P.E.

#### WALTER REED MEETING MINUTES NO. 1

Project:

Chilled Water Study - Walter Reed Army Medical Center

Project No. 4130.02/830

Contract No.:

DACA01-94-D-0037

Meeting Date:

October 17, 1994

Walter Reed Army Medical Center, Building 1

Minutes Issue Date:

October 21, 1994

Attendees:

Regina Larrabee - WRAMC

Mr. Abas Keshavarz - WRAMC

Bill McMahon – Entech Engineering, Inc. Jack Fisher – Entech Engineering, Inc. Ed Caulkins – Entech Engineering, Inc.

Distribution:

Regina Larrabee – WRAMC

Mr. Mlecik – USAED, Norfolk Mr. Bataglia – USAED, Mobile

Bill McMahon – Entech Engineering, Inc. Jack Fisher – Entech Engineering, Inc. Ed Caulkins – Entech Engineering, Inc.



500 Penn Street PO Box 32 Reading, Pennsylvania 19603



#### **Items Discussed:**

- 1.1 Started meeting with a brief introduction of all attendees.
- 1.2 Mr. Abas Keshavarz is the engineer familiar with the chilled water system. Abas is located in Office OC12, Building #1, telephone number (202)-576-4415.
- 1.3 Honeywell is negotiating for a contract to perform energy improvement projects on site. Furnished as background knowledge for any necessary coordination in the future.
- 1.4 The existing chilled water system suffers from distribution problems. As a result, many buildings have independent air cooled water chillers. Some buildings may have provisions for tie-in to the central plant though are currently on independent chillers.
- 1.5 Entech will evaluate building cooling loads as block loads and will not get into the specific building systems of each.
- 1.6 Entech will not discard the Alphatec report, but will build upon the information incorporated in that report.
- 1.7 Briefly reviewed Entech scope of work to develop a common understanding of proposed work and its interface with Walter Reed personnel.
- 1.8 Mr. Keshavarz noted that WRAMC presently has a manpower shortage to maintain physical plants and asked Entech to keep such requirements in mind during our study and analysis.
- 1.9 Boiler efficiency was noted as poor due to oversized boilers and the additional need for a backup boiler to be on-line at all times. Entech will include this information in its analysis should steam absorption chillers become an option in this study.
- 1.10 Mr. Keshavarz noted that the chilled water system experiences problems with high back pressure on the return side of the loop.
- 1.11 New buildings under construction and design have air cooled chillers with secondary pumping systems designed for future tie-in to the main plant loop.

- 1.12 WRAMC has several large chillers which use R-11 and R-500. They are currently incurring high maintenance costs to replace and charge existing CFC refrigerant machines.
- 1.13 Existing controls are not DDC systems. However, there is a campus monitoring system (EMCS) by Williams Electric of Florida. The system is outdated and parts are generally unavailable.
- 1.14 In general the chiller plant capacity is adequate for current loads, the weak link is the distribution system.
- 1.15 Entech will develop a project schedule for the implementation of this study to be reviewed with Regina as soon as available.
- 1.16 It was noted that there is inadequate steam available in the existing chiller plant for steam absorption type chillers. In addition, cooling towers were noted as probably inadequate for use with absorption chillers.
- 1.17 A new Trane chiller is presently being installed to replace one of the original York chillers.
- 1.18 It was noted that the main chiller plant lacks proper means for isolation to service chiller equipment. This problem became apparent during the recent installation of the new Trane chiller.
- 1.19 WRAMC personnel reminded Entech to keep the hospitals continuous operation in mind when proposing any changes to the chilled water system.
- 1.20 Entech requested the following information for Monday, October 24, 1994:
  - Chiller plant drawings to be copied onsite.
  - ♦ Chilled water distribution system drawings to be copied onsite.
  - ♦ Disk for Alphatec drawings in report.
  - ♦ Single line power distribution drawing for site.
  - ♦ Two (2) years of electric bills January 1992 to present.
  - ♦ Cost of steam.
  - ♦ Copy of gas and electric tariff for WRAMC.
- 1.21 Ms. Larrabee will make arrangements for a parking permit for Entech.
- 1.22 No requirements for badges or camera passes are required. Entech will coordinate all site visits with Ms. Larrabee and notify her before any camera pictures are taken onsite.

1.23 Next meeting will be held on Monday, October 24, 1994 at 11:00 a.m. in Building #1 WRAMC with Abas Keshavarz. Ms. Regina Larrabee will be out of the office until the following week.

The above minutes reflect the writer's interpretation of the meeting events and discussions. Should there be any corrections which are deemed to be required to these minutes, please send a copy of your suggested corrections to the undersigned within five (5) days of receipt. Receiving no corrections, these minutes shall stand as the meeting record.

Respectfully submitted,

Edward L. Caulkins, P.E.

Project Manager

ELC:caf

**Consulting Engineers** 



Principals: Daniel J. Castellani, P.E.

Thomas M. McMahon, P.E. William M. McMahon Jr., P.E.

#### WALTER REED MEETING MINUTES NO. 2

Project:

Chilled Water Study - Walter Reed Army Medical Center

Project No. 4130.02/830

Contract No.:

DACA01-94-D-0037

Meeting Date:

October 24, 1994

Walter Reed Army Medical Center, Building 1

Minutes Issue Date:

October 26, 1994

Attendees:

Mr. Abas Keshavarz - WRAMC

Jack Fisher – Entech Engineering, Inc. Ed Caulkins – Entech Engineering, Inc.

Distribution:

Regina Larrabee - WRAMC

Mr. Mlecik – USAED, Norfolk Mr. Battaglia - USAED, Mobile

Bill McMahon – Entech Engineering, Inc. Jack Fisher – Entech Engineering, Inc. Ed Caulkins – Entech Engineering, Inc.



500 Penn Street PO Box 32 Reading, Pennsylvania 19603

elephone 610.373.6667

Fax 610.373.7537

#### <u>Items Discussed:</u>

2.1 No formal meeting was planned. Objective was to receive several pieces of data and drawings requested at Meeting No.1.

The following information was transmitted to Entech Engineering:

#### Drawings:

- Electrical Site Distribution Single Line Diagram, dated 01-24-77 (with update notations)
- Building #48 Chiller Plant Addition/Cooling Tower Replacement Project, dated 04-13-73, As-built Mar.76, M-1, M-2, M-3, M-4, M-5, M-6, M-8, M-9, M-10, M-11, E-1, E-2, E-3 (copies of prints to be retained by Entech and Dwg. No. 26-06-11.
- Reservation Master Plan, Basic Information Maps dated Oct. 1987, Reservation Map, Utilities Maps; Electric, Fire Alarm, Heating, Gas, Domestic HW, Energy Monitoring, Chilled Water and Historical Record Map. (original prints to be copies by entech and returned to Abas Keshavarz) Dwg. No. 931-10-08.

#### Printed Matter:

- Installation Commander Annual Real Property Utilization Survey (ICARPUS), dated April 1994.
- PEPCO Billings Dec. 1992 to Sep. 1994, 14th and Elder Streets, NW Service Address.
- PEPCO Billings Dec. 1991 to Sep. 1994, Walter Reed Hospital Service Address.
- Washington Gas Billings Sep. 1993 to Aug. 1994.
- Monthly Bulk Petroleum Accounting Summary Dec. 1993 to Mar. 1994.
- Washington Gas Light Co. Rate Schedules May 24, 1991
- PEPCO Rate Schedules June 5, 1994.
- 2.2 Reviewed the current site map with Mr. Keshavarz to identify existing building with air cooled chillers to provide central cooling water.
- 2.3 Following the meeting, Entech personnel walked the entire site to familiarize themselves with building types, functions, construction, and documented cooling equipment which was accessible.
- 2.4 Next meeting will be scheduled upon Ms. Larrabee's return next week.

The above minutes reflect the writer's interpretation of the meeting events and discussions. Should there be any corrections which are deemed to be required to these minutes, please send a copy of your suggested corrections to the undersigned within five (5) days of receipt. Receiving no corrections, these minutes shall stand as the meeting record.

Respectfully submitted,

Edward L. Caulkins, P.E.

Project Manager

ELC:caf

#### **Consulting Engineers**



Principals: Daniel J. Castellani, P.E. Thomas M. McMahon, P.E. William M. McMahon Jr., P.E.

#### WALTER REED MEETING MINUTES NO. 3

Project:

Chilled Water Study - Walter Reed Army Medical Center

Project No. 4130.02/830

Contract No.:

DACA01-94-D-0037

Meeting Date:

December 21, 1994

Walter Reed Army Medical Center, Building 1

Minutes Issue Date:

January 4, 1995

Attendees:

Mr. Abas Keshavarz - WRAMC

Ms. Regina Larrabee - WRAMC

Ed Caulkins - Entech Engineering, Inc.

Distribution:

Regina Larrabee - WRAMC

Mr. Mlecik – USAED, Norfolk Mr. Battaglia - USAED, Mobile

Bill McMahon – Entech Engineering, Inc. Jack Fisher – Entech Engineering, Inc. Ed Caulkins – Entech Engineering, Inc.



500 Penn Street PO Box 32 Reading, Pennsylvania 19603



#### **Items Discussed:**

3.1 No formal meeting was planned. Objective was to conduct field survey and collect additional drawings.

The following information was transmitted to Entech Engineering:

#### Drawings:

 Miscellaneous drawings for chiller plants and all buildings served by central chilled water system. Entech sorted and copied appropriate drawing from WRAMC drawing files room.

#### Printed Matter:

- Washington Gas Billings Oct. 1992 to Sept. 1993 and Sept. 1994.
- Monthly Bulk Petroleum Accounting Summary Dec. 1993 to Mar. 1994.
- 3.2 Discussed current operating deficiencies of Building 48 chiller plant. Following items were revisited in our discussions:
  - No existing isolation valves to allow selective shutdown and isolation of specific chillers and pumps for service or replacement. Consider this in difficulty factor when evaluating options.
  - Currently pumping limitations on chilled water distribution system.
     This requires additional pumps to provide adequate flow at Building 2 during certain operating periods. This results in more pumps than chillers operating and therefore excessive flows and pressure drops through chillers.
  - Make sure that additional manpower and maintenance costs are included where appropriate for proposed options versus existing.
  - Current site wide chilled water distribution system is not operating as a true primary-secondary system.
  - During peak loads, WRAMC uses selective load shedding in Building's 1, 41 and 40 as required to maintain Building 2 loads.

- 3.3 Discussed current operating characteristics of Building 49 chiller plant.
  - Plant originally installed to accommodate Building 14. Actual load was significantly less than installed capacity.
  - Building 11 and 17 were added to the chilled water plant to use some of the available capacity. Plant currently operates at a low chilled water temperature difference indicative of loads below capacity.
- 3.4 Building 54 chilled water plant usually on line from May through September. Other months Building 54 runs off Building 48 plant. In addition, secondary pumps in Building 54 are only used when building chillers are used. Building 48 chilled water pumps provide pumping during winter season cooling.
- 3.5 Building 1 will be renovated to become an outpatient clinic.
  - Building 40 is also scheduled for future renovations.
- 3.6 Survey of Building 48 chilled water plant conducted. Mr. Chris Whelehan, Plant Operator, provided support for finding chiller logs and answering general operation questions.
- 3.7 Cooling towers are ceramic tile towers by CTI, Inc.
- 3.8 Cooling tower 1 is currently off-line due to fan blade failure. Parts are on order.
- 3.9 Usually a minimum of two (2) chillers running in Building 48 during winter.
- 3.10 New Trane chiller is operational but not being used until operator training is complete. Anticipated training early January 1995.
- 3.11 Chillers are interlocked with cooling towers. Chiller start up is manual and based on water temperature to and from Building 2.
- 3.12 Chiller log books indicated peak summer weather on July 8 and 9, 1994.

7/8/94 98°F DB 87°F WB 65% RH 7/9/94 98°F DB 91°F WB * 88% RH *

^{*} appears questionable

- 3.13 Completed field survey of Building's 48, 49 and 54 chiller plants to understand system design and document equipment nameplate data.
- 3.14 Data for new BRAC building construction drawings was documented for proposed load data.

200 ton air cooled chiller, 480 GPM10 ton DX split system for computer room5 ton DX split system for elevator machine room

3.15 Fuel oil cost is \$.70 per gallon for the last three (3) years. Fixed rate under defense agency contract.

The above minutes reflect the writer's interpretation of the meeting events and discussions. Should there be any corrections which are deemed to be required to these minutes, please send a copy of your suggested corrections to the undersigned within five (5) days of receipt. Receiving no corrections, these minutes shall stand as the meeting record.

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Respectfully submitted,

Edward L. Caulkins, P.E.

Project Manager

ELC:mg

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## ENTECH ENGINEERING, INC.

# LETTER OF TRANSMITTAL

Please reply to:

500 Penn Street

P.O. Box 32

1851 West End Avenue P.O. Box 389

READING, PA 19603 (610) 373-6667 POTTSVILLE, PA 17901

(010) 3/3-000/ FAX: (610) 373-7537 (717) 628-5655 FAX: (717) 628-5097

DATE:November 10, 1994

**JOB NO.**4130.02

	TAA. (C	110) 373-1.	,,,	. (111) 020 5051	21112110		
ro: C	ommander, U.S	. Army E	ingineer Dist	rict, Norfolk	ATTENT	ION:	Mr. Mlecik
A'	ITN: CENAO	EN-MP (	MR. MLECI	K)	RE:		Walter Reed Medical Center
80	3 Front Street,	Norfolk,	VA 23510				Chiller Water Study
							DACAO1-94-D-0037-003
E ARE SEN	NDING YOU X	Attached	☐ Under s	eparate cover via			the following items:
	hop Drawings Copy of letter	□ P		☐ Plans ☐ Monthly		□ Samples	☐ Specifications
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PY TO:	Ms. Regina	Larrabee	; Mr. Battag	lia; B. McMahon	SIGNED:	Edw	ard Caulkins, P.E.

VIA - U.S. Mail

initials

#### EEAP MONTHLY REPORT November 9, 1994

PROJECT: WALTER REED MEDICAL CENTER CHILLED WATER STUDY

CONTRACT:

DACA01-94-D-0037---DO-0003

CONTRACTOR:

ENTECH ENGINEERING INC., READING, PA

#### **SUMMARY OF PROGRESS:**

Last month Entech executed DD1155 and returned same. We petitioned for Project Manager approval as required and received an oral acceptance of the candidates. An Entry Interview was held and documentation prepared. Information was requested of the Government and much of the data was furnished at our second meeting. Site investigation work was conducted during our second trip.

#### FORECAST OF EFFORTS:

Planned for the month of November is continued field collection of building data, existing chilled water plants, review of plant operating logs and cooling load profiles. We have begun to analyze utility bills furnished by the Director of Public Works. This analysis will continue this month to fully understand the rate structures as they apply to the current and future utility billings. The collection of this data will allow us to begin the calculations necessary to begin the analysis of the chilled water system.

#### **COMMERCIAL STATUS:**

Invoice format and the proposed monthly schedule was submitted, reviewed and approved. Invoice number one was submitted.

#### **CORP ACTION ITEMS:**

We have requested and await certain government documents that are required and may influence the study. These requests have been submitted in conjunction with a parallel project, Letterkenny Lighting Study DACA01-94-D-0037--DO-0004, to avoid duplication of effort. Mr. Mlecik has promised these documents are forthcoming.

#### **END OF MONTHLY REPORT**

File:G:\PROJECTS\4130.02\WP\MONTHLY.R01

### ENTECH ENGINEERING, INC.

# LETTER OF TRANSMITTAL

Please reply to:

500 Penn Street P.O. Box 32

ADING, PA 19603

1851 West End Avenue

P.O. Box 389 POTTSVILLE, PA 17901 5930 Hamilton Blvd. ALLENTOWN, PA 18106

(610) 373-6667 (610) 373-7537 (717) 628-5655 FAX: (717) 628-5097 (610) 366-8182 FAX: (610) 366-8184

DATE:December 14,1994

JOB #4130.02

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VIA - U.S. Mail

IGNED:

Edward Caulkins, Project Manager

# EEAP MONTHLY REPORT December 8, 1994

PROJECT:

WALTER REED MEDICAL CENTER CHILLED WATER STUDY

CONTRACT:

DACA01-94-D-0037---DO-0003

CONTRACTOR:

ENTECH ENGINEERING INC., READING, PA

#### **SUMMARY OF PROGRESS:**

Last month Entech performed a Utility Rate Analysis for both electric and gas. This analysis is used to develop incremental costs for fuels in order to calculate energy savings for proposed energy conservation options. As part of this analysis billing rates were analyzed, broken down and in some cases reviewed with the utility companies for a clear understanding of the billing calculations and to verify accuracy.

A campus building summary chart was developed to consolidate pertinent information which will be used for calculations such as square foot, building usage, glass area, and intended building life.

#### **FORECAST OF EFFORTS:**

Planned for the month of December is continued field collection of building data, existing chilled water plants, review of plant operating logs and cooling load profiles. The collection of this data will allow us to begin the calculations necessary for the analysis of the chilled water system.

#### **COMMERCIAL STATUS:**

Invoice number one remains unpaid. There is no invoice submitted for November.

#### **CORP ACTION ITEMS:**

We have requested and await certain government documents that are required and may influence the study. These requests have been submitted in conjunction with a parallel project, Letterkenny Lighting Study DACA01-94-D-0037--DO-0004, to avoid duplication of effort. Mr. Mlecik has promised these documents are forthcoming. We are still awaiting delivery of these items.

#### **END OF MONTHLY REPORT**

File: G-PROJECTS-4130.02/WP-MONTHLY.R02

## ENTECH ENGINEERING, I'

## LETTER OT TRANSMITTAL

Please reply to:

500 Penn Street

(610) 373-6667

1851 West End Avenue

P.O. Box 32 EADING, PA 19603 P.O. Box 389

POTTSVILLE, PA 17901

5930 Hamilton Blvd. ALLENTOWN, PA 18106

(717) 628-5655 EAY- (717) 628-5007

(610) 366-8182 FAY: (610) 366-8184

(610)	373-7537	FAX: (7)	7) 628-5097	FAX: (6	10) 366-8184	DATE	::1/18/95	<b>JOB</b> #4130.02/83
TO: C	commander, U.S	S. Army E	ngineer District	, Norfolk		ATTE	ENTION:	Mr. Mlecik
A	tm: CENAO-E	N-MP (M	R. MLECIK)			RE:	Walter F	Read Medical Center
. 80	03 Front Street						Chiller V	Water Study
N	orfolk, VA 2	3510					DACA0	1-94-D-0037-003
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TO:	Ms. Regina	Larrabee.	Mr. Battaglia,	B. McMah	on SIGNED:	. 2	Li ma	Caulk

VIA - U.S. Mail

ELC:tmg

Edward Caulkins, Project Manager

#### EEAP MONTHLY REPORT January 10, 1994

PROJECT: WALTER REED MEDICAL CENTER CHILLED WATER STUDY

CONTRACT: DACA01-94-D-0037---DO-0003

CONTRACTOR: ENTECH ENGINEERING INC., READING, PA

#### **SUMMARY OF PROGRESS:**

In December, Entech finalized the development of incremental costs for electric and gas utilities. These incremental costs will be used in the calculations for energy conservation options. This data accounts for on-peak, interim, and off-peak time periods as presently billed by PEPCO.

A team of two Entech engineers spent two days on site to interview personnel on the operation of the main chiller plants and gather log data available to support actual usage during 1994. As part of this investigation each plant was visited to take pictures, identify equipment and determine system layout and operation. This information will be used in the development of chiller plant alternative evaluations.

Entech personnel duplicated several existing building drawings from the plan files room in Building 1 to allow the start of computer generated building loads. These cooling loads will be used to verify current chiller system operating loads and also account for future loads. These calculations have been started using Elite CHVAC and will be converted to Elite EZDOE II.

#### **FORECAST OF EFFORTS:**

In January 1995, the computer generated cooling loads will be completed and compared with chiller plant operating logs. This data will be used to begin the development and evaluation of chiller plant alternatives for energy savings.

By the end of January, Entech anticipates the documentation of all alternatives to be evaluated as well as preliminary calculations/evaluations. Along with this work the Methodology, Facility Description, Energy Use and Costs sections are expected to be completed in draft form.

Entech has discussed the planning of a progress meeting in early February with Walter Reed Medical Center representative Ms. Regina Larrabee. The intent of the meeting is to review alternatives and allow owner input prior to the interim submission in early March.

#### **COMMERCIAL STATUS:**

Two invoices have been submitted to date. Neither invoice has been paid to date.

#### **CORP ACTION ITEMS:**

Entech requests that the Corp process and pay invoices which have been submitted for the months of October and December of 1994.

**END OF MONTHLY REPORT** 

#### ENTECH ENGINEERING, INC.

## LETTER OF TRANSMITTAL

Please reply to:

500 Penn Street P.O. Box 32

(610) 373-6667

ADING, PA 19603

1851 West End Avenue

P.O. Box 389

5930 Hamilton Blvd. ALLENTOWN, PA 18106

POTTSVILLE, PA 17901 (717) 628-5655 FAX: (717) 628-5097

(610) 366-8182 FAX: (610) 366-8184

DATE:2/10/95

JOB #4130.02/830

(610) 3	73-7537	FAX: (71	7) 628-5097	FAX: (610) 366-8184	DATE:2/10/9:	JOB #4130.02/830				
TO: C	ommander, U.S	. Army E	ngineer Distric	ct, Norfolk	ATTENTIO	ATTENTION: Mr. Mlecik				
A	tm: CENAO-E	N-MP (M	RE: Walte	RE: Walter Read Medical Center						
80	3 Front Street				Chille	er Water Study				
N	orfolk, VA 23	3510			DAC	A01-94-D-0037-003				
WE ARE SEI	NDING YOU	Attached	☐ Under sep	parate cover via		the following items:				
	hop Drawings Copy of letter	□ P.		☐ Plans ■ Monthly Rep	☐ Samples	☐ Specifications				
COPIES	DATE	NO.			DESCRIPTION					
1	2/10/95	1	Monthly R	eport	~					
1	1/26/95	2	Project Sch	nedule						
•										
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TO:	Ms. Regina	Larrabee	, Mr. Battaglia	a, B. McMahon SIG	NED: Cdwa	d Cauch				

ELC:tmg

VIA - U.S. Mail

If enclosures are not as noted, please notify us at once.

Edward Caulkins, Project Manager

FILA:G:\PROJECTS\4130.02\WP\MLECIK.T04

#### EEAP MONTHLY REPORT February 6, 1995

PROJECT:

WALTER REED MEDICAL CENTER CHILLED WATER STUDY

CONTRACT:

DACA01-94-D-0037---DO-0003

CONTRACTOR:

ENTECH ENGINEERING INC., READING, PA

#### **SUMMARY OF PROGRESS:**

In January, Entech finalized the development of computer generated cooling loads using Elite EZDOE software. This computer simulation was generated to help confirm the cooling load profiles as determined from the Building 48 chiller plant. This data is also being compared with the PEPCO electric bills to confirm existing chiller plant contributions

Entech made a site visit in January to retrieve some additional information regarding the operation and existing conditions of the chiller plants, remote chillers, building insulation and the boiler plant. These issues were addressed to further justify chilled water load and operating procedures. Information regarding operation was discussed with Robert Marzo (Building 48), Ali Salahuddin (HVAC Group) and Alvin Kornegay, Jr. (Boiler Plant). The information received is instrumental in the further development of chiller plant alternatives to be evaluated.

The generation of the Electric Model to aid in the analysis of present chilled water energy usage is the progress. This model will allow Entech to compare alternatives by modifying chilled water system components and operating strategies to make better and more efficient use of energy.

#### FORECAST OF EFFORTS:

The primary goals for February are the preliminary development of Chiller System Alternatives. These alternatives along with Methodology, Facility Description, Energy Use and Costs and Energy Calculation sections of the study will be generated for the Interim Submission in early March.

#### **COMMERCIAL STATUS:**

Invoices for October and December 1994 and January 1995 have been submitted to date. No invoice has been paid to date. Ed Caulkins will contact Mr. Steve Mlecik to resolve.

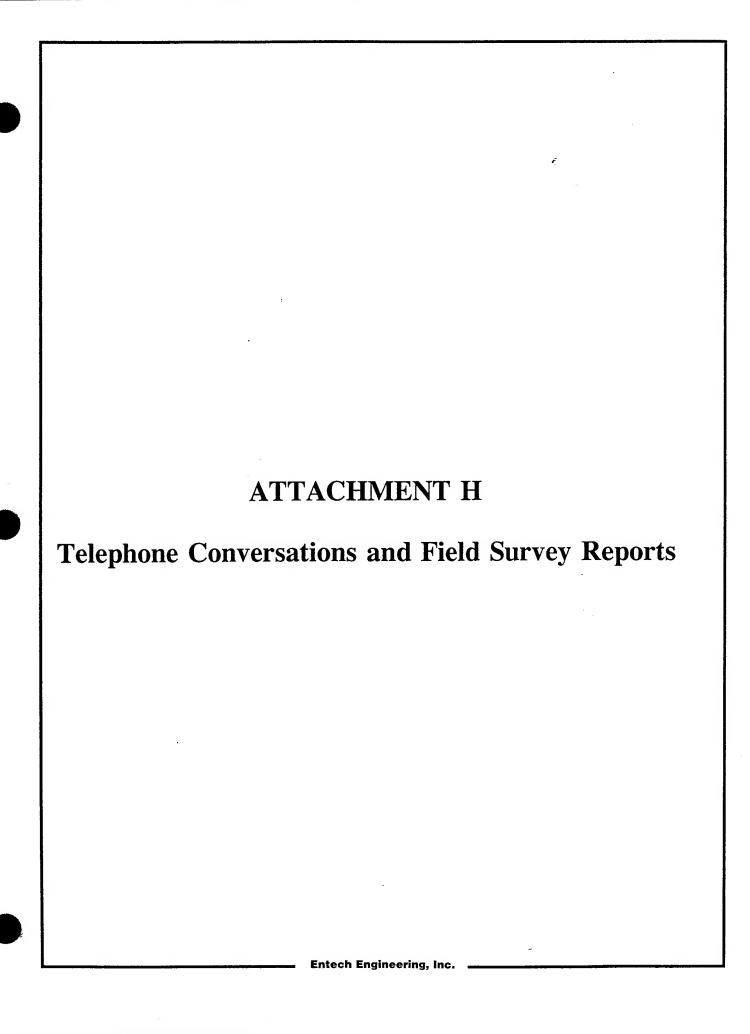
#### **CORP ACTION ITEMS:**

Entech requests that the Corp process and pay invoices which have been submitted for the months of October and December of 1994.

Entech would like to set up interim submission date and presentation date. Ed Caulkins to contact Mr. Steve Mlecik and Ms. Regina Larrabee to coordinate dates. Approximate dates are identified in attached project schedule.

**END OF MONTHLY REPORT** 

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		Contract Avard	Project Kick-off Weeting	Second Meeting	Data Gathering/Site Visits	Billing Histories	Study Chiller Plant Drawings	Utility Rate Analysis	Reveiw Chiller Logs	Heat Gain Calculations	Chilled Water System Losses	Energy Use Model	Draft ECO's	Regulatory Requirements	Project Update Mtg # WRANC	Develop ECO's	Interim Submittal	Interia Review	Interim Presentation	ECO Analysis	Prepare Drait Report	Project Up-date Mtg 0 WRAMC	Prepare Pre-Final Submittal	Pre-Final Submittal	Pre-Final Submittal Review	Final Submittal	Noncritical xxxxxx		ect: 4130 02
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#### **Consulting Engineers**

Principals:
Daniel J. Castellani, PE
Thomas M. McMahon, PE
William M. McMahon Jr., PE

# ENTECH

# ENTECH ENGINEERING, INC. TELEPHONE AND CONFERENCE MEMORANDUM

DATE: 11/11/94

BY: Jack Fisher

PROJECT NO.: 4130.02

PERSON(S): Ms. Regina Larrabee TELEPHONE NO: (202) 782-0315

FAX NO.: (202) 782-8383

PHONE CODE: 830

REPRESENTING: Walter Reed Medical Center

TITLE: Energy Conservation Engineer

SUBJECT: Walter Reed Army Medical Center

Chilled Water Study

#### **NOTES:**

- 1. Demolition of Building 1D shown in Property Utilization Survey (PUS), has indicated new construction of the Surgical Annex in the Alphatec Study, is long range beyond the year 2000.
- 2. AFIP addition, shown in the Alphatec Study, is long-range beyond the year 2000.
- 3. Demolition of Buildings 1C, 1G, 1J, 1K, and 1L are probably within present and the year 2000.
- 4. The MRI building and the 2-D Scan addition are completed and Building 1M was demolished.



4 South Fourth Street P.O. Box 32 Reading Pennsylvania 19603

Office 610.373.6667

Fax 610.373.7537

- 5. Computer Building T-2 will probably be demolished 1998-2000. Some people will be relocated to a new facility at Forest Glen. Building 40 functions will be moved elsewhere and the building will be renovated by the year 2000. The remaining people from T-2 will move into Building 40.
- 6. Barracks renovation/addition, Building 14, has been pushed back and forth several times. Probably will be completed 1998-2000.
- 7. New Physical Fitness and Transient Lodging facilities will be built by the year 2000. Existing facilities will remain in use.
- 8. In addition, Building 16 and some other small buildings including the Grounds Shops which are presently not air conditioned, will be demolished and a new Building 16 built. The building will include an office area and hopefully be added to chiller Building 49's loop.
- 9. Building 91 presently is not on the chilled water loop. The building is scheduled to be renovated and hopefully added to the "New Chilled Water Loop."

#### TELEPHONE CONVERSATION RECORD

ENTECH ENGINEERING, INC. 500 PENN STREET, BOX 32 AEADING, PA 19603

ENTECH No.: 4130.02

DATE: 1-13-95

PHONE: FAX:

(610) 373-6667

(610) 373-7537

PROJECT: WALTER REED MEDICAL CONTER

NAME	COMPANY
REGILA LARRABEE (202) 782-0315	WRAMC
E. CAULKINS	ENTECH

#### ITEMS DISCUSSED:

Q: ASKED REGIHA IF CADD SITE DRAWINGS ARE AVAILABLE OF

A: DISK? AUTHOUGH ONIGINALS AME CAND GENERATED REGILIA BELIARS WHAMC ONLY HAS MYLAN REPRODUCIBLES.

- Q: WHAT IS RELATIVE TIME FRAME AND OR CERTAINTY OF SURGICAL ANNEX & AFIP ADDITION?
  - A: IF THEY GO AHEAD IT WILL NOT BE LIMITL THE YEAR 2005 OR LATER. THEY COULD DISAPPEAR OR RECOME DIFFERENT BUILDINGS IN THE FUTURE. ENTECH WILL ASSUME BLDGS. AS PROPOSED FOR YEAR 2006.
  - Q: WOULD LIKE TO LAVE A FREGUESS MEETING WITH WHAMC AND ANYONE ELSE NECESSARY APPROXIMATELY FEB 7,1995.
- A: REGIHA INDICATED THIS WEEK SHOULD BE OKAY. ELC TO CONFIRM INTERNALLY AND FINALIZE W/ REGIHA.

J. FISHER

B. McMarton

CFF- 4130.02

File:G:\PROJECTS\FORMS\SP\TELECON.95

#### TELEPHONE CONVERSATION RECORD

ENTECH Engineering, Inc. 500 PENN STREET, BOX 32 READING, PA 19603

ENTECH No.: 4130.02

DATE: (-13-95

PHONE: FAX:

(610) 373-6667 (610) 373-7537

PROJECT: WRANC

NAME 3AS KESHAVARZ 12021782-4415

COMPANY

#### ITEMS DISCUSSED:

A: Askers ABAS IF ANY CADO DINAWINGS (FILES) AME AVAILABLE
A: FROM HIS DEPARTMENT? HE INDICATED THAT HE REQUIRES

DISKS FOR ALL HIS PROTECTS. HE WILL LOOK TO SEE WHAT IS WALLAGUE FROM HIS TEPAROTMENT.

ARAS ALSO MENTIOHED THAT TRANE HAS SUBMITED AN ENERCY/IMPROVEMENT PROPOSAL TO COMPETE WITH THE HONEYWELL PROPOSAL. THE EXILY DIFFERENCE IS THAT TRAKE'S PROPOSAL IS FOR CHILLED WATER Sygons only. Als BELIEVES THIS PROPOSAL TO BE MORE FAMETABLE THAN HONEYUELL BUT IS EPSVIOUSY ANXIOUS FOR OUR ANALYSIS PORTION OF OUR GUY.

I Fisher

FE:G:\PEOJECTE\FORMS\SP\TELECON.95

#### TELEPHONE CONVERSATION RECORD

ENTECH Engineering, Inc. 500 PENN STREET, BOX 32 **EADING. PA 19603** 

ENTECH No.: 4130.02

DATE: 2/16/9

PHONE: FAX:

(610) 373-6667

PROJECT: WRAMC

(610) 373-7537

CHILLER STUDY

<u>Name</u>

**COMPANY** 

HENRY MITCHELL

WIRAMC, SPACE PLANNER

JACK FISHER

ENTECH

TELECON W/REGINA THIS SAME DAY: BLOG # 7 CHILLER 15 ≈ 200 Taus

ITEMS DISCUSSED:

HEATON PRAVILION T

1-BASEMENT

7-OCCUPIED FLOORS

7 - INSERSTUTIAL FLOORS

2,548,428 OCCUPIED 23,900 DINIUG 2,572,328 NET 13 1,240,441 INTERSTITIAL SPACE

3,812,769 GROSS#

MRI, BLOG. 5

9,934 GROSS \$ 8,832 NET \$

BRAC, BLOG. 6

65,500 GROSSHD 32,544 INSTERSTITIAL 32,956 NET \$

BLDG T-Z BOILT 1972 MRI, BLDG 5 BUILT 1993

#### FIELD SURVEY REPORT

Date: February 1, 1995

Entech Project: #4120.03

Attendees: Mr. Ali Salahuddin — HVAC Group

Mr. Ed Caulkins, P.E. — Entech Engineering, Inc.

Mr. Danny Smith — Entech Engineering, Inc.

Location: Walter Reed Army Medical Center

Mr. Salahuddin is responsible for Buildings 1, 7, 38, T-2, and 11.

Mr. Salahuddin gave us a brief tour of AHU systems in Buildings 1 and T-2.

Building 1 uses three-way control valves.

Building T-2 uses two-way control valves.

Control valves are in many cases in need of replacement, several were observed leaking.

The air-cooled chiller for Building T-2 is no longer operational. Estimated repair costs have resulted in unit being abandoned in place.

#### FIELD SURVEY REPORT

Date: February 1, 1995

Entech Project: #4120.03

Attendees: Mr. Robert Marzo — Chiller Plant Operator

Mr. Ed Caulkins, P.E. — Entech Engineering, Inc.

Mr. Danny Smith — Entech Engineering, Inc.

Location: Walter Reed Army Medical Center

#### **Building 54**

Chiller #1 Rebuilt three (3) years ago, compressor and tubes.

Chiller #2 Retubed.

Original cooling tower is in poor condition. All wood components are in bad shape.

#### **Buidling 48**

(York)	Has received general maintenance only.
(York)	Has received general maintenance only.
(Trane)	Installed 1994.
(Carrier)	
(Carrier)	Rebuilt mid-summer 1994.
(Carrier)	Compressor rebuilt May 1994.
	(Trane) (Carrier) (Carrier)

#### **Buidling 49**

Chiller Rebuilt motor windings, replaced gaskets.

#### FIELD SURVEY REPORT

Date: February 1, 1995

Entech Project: #4120.03

Attendees: Mr. Alvin Kornegay, Jr. - Boiler Operator

Mr. Ed Caulkins, P.E. — Entech Engineering, Inc. Mr. Danny Smith — Entech Engineering, Inc.

Location: Walter Reed Army Medical Center

#### **Boiler Plant**

#### Steam generated at 110 psig:

Boiler #1	(Keeler)	100,000 #/hr.
Boiler #2	(Keeler)	100,000 #/hr.
Boiler #3	(Keeler)	60,000 #/hr.
Boiler #4	(Keeler)	60,000 #/hr.

#### Winter Operation:

Boilers #1 and #2 On. Boilers #3 and #4 Idle.

#### **Summer Operation:**

Boilers #3 and #4 On.

#### Log Data:

January 19, 1994 2,708,500 #/day

112,855 #/hr average

July 20, 1994 589,600 #/day

24,567 #/hr average

#### While in boiler plant (2/1/95):

Boiler #1 Running at 58% load Boiler #2 Running at 27% load ENTECH ENGINEERING INC. 4 South Fourth Street P.O. Box 32 Reading, PA 19603 (610) 373-6667 FAX NO. (610) 373-7537

#### FAX TRANSMITTAL

DATE: JULY 27, 1995

ENTECH PROJECT #/NAME:4130.02/Mobile-Walter Reed Chiller Study PLEASE DELIVER THE FOLLOWING PAGE(S) TO:

NAME:Regina Larrabee

FIRM: WRAMC

FAX NUMBER: 202-782-7188

PHONE CODE: 830

FROM: Ed Caulkins

REMARKS:

We need a few additional pieces of information in order to complete the Chiller Study. This information is in reguards to the scope change for evaluating several ways to reduce the peak cooling load. Please have the building HVAC technicians fill-in the missing information on the attached tables.

### PLEASE CALL ME TO REVIEW

THANKS ED

WE ARE TRANSMITTING _____3 PAGE(S) (INCLUDING COVER PAGE) If you do not receive all the pages, please call (610) 373-6667, request mail room.

CC: 4130.02

C. SHYDER ENTERIT

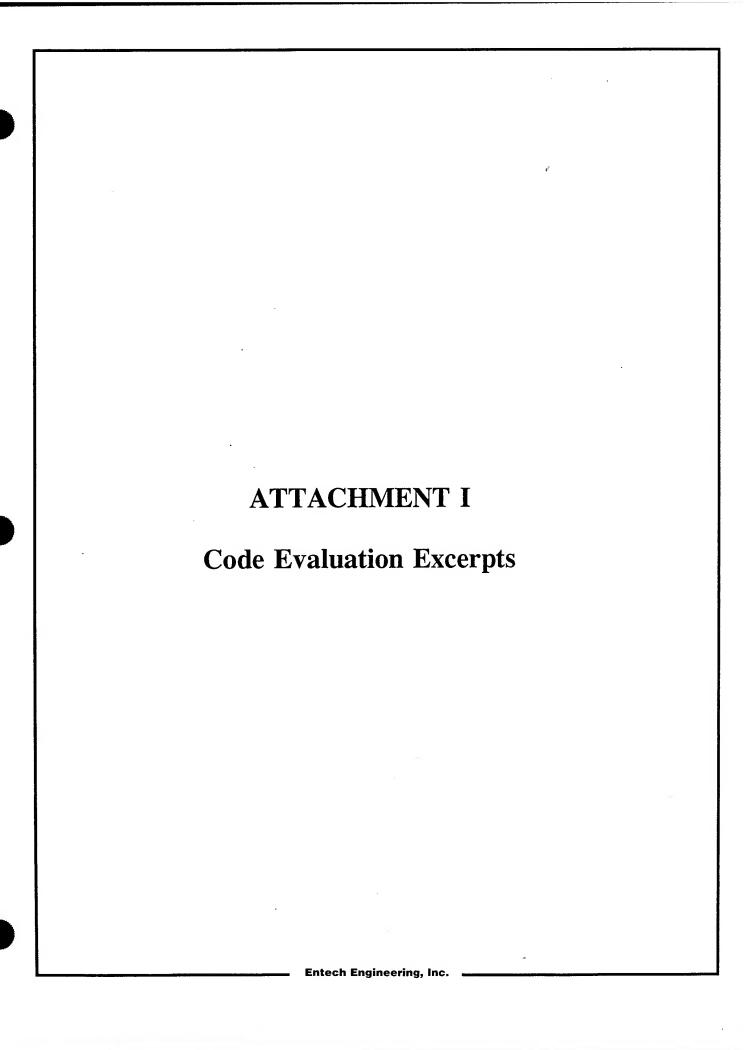
# BUILDING 2 - HEATON PAVILLION AIR HANDLING UNIT SCHEDULE

#### PLEASE FILL-IN THE BLANK SPACES AND CORRECT ANY INCONSISTENCIES

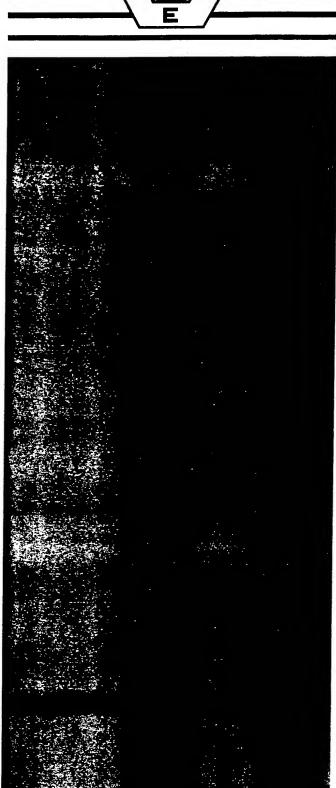
FAN	1			DESIGN PREHEAT	ACTUAL PREHEAT
UNIT	SYSTEM	NOMINAL	SYSTEM	COIL LAT	COIL LAT
TYPE	NUMBER	CFM	TYPE	DEG. F	DEG. F
В	SAISWI	19,850	100% O.A.	52	60
В	SA4NW1	20,200	100% O.A.	52	
В	SA4NW2	19,025	100% O.A.	52	
В	SA4SW1	22,425	100% O.A.	52	
В	SA4SW2	18,625	100% O.A.	52	
В	SA4SE1	14,700	100% O.A.	52	
В	SA4SE2	18,625	100% O.A.	52	
В	SA4NE1	17,175	100% O.A.	52	
В	SA4NE2	18,950	100% O.A.	52	
В	SA7SW3	19,100	100% O.A.	52	
В	SA7SE1	19,195	100% O.A.	52	
D	SA5NW1	13,600	100% O.A.	52	
D	SA5NW2	13,100	100% O.A.	52	
D	SA5SW1	13,450	100% O.A.	52	
D	SA5SW2	14,250	100% O.A.	52	
D	SA5SE1	14,150	100% O.A.	52	
D	SA5SE2	13,250	100% O.A.	52	
D	SA5NE1	13,250	100% O.A.	52	
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D	SA6NW2	13,300	100% O.A.	52	
D	SA6SW1	13,425	100% O.A.	52	
D	SA6SW2	14,050	100% O.A.	52	
D	SA6SE1	14,100	100% O.A.	52	
D	SA6SE2	13,175	100% O.A.	52	
D	SA6NE1	13,275	100% O.A.	52	
D	SA6NE2	13,400	100% O.A.	52	
D	SA7NW1	14,050	100% O.A.	52	
D	SA7NW2	14,275	100% O.A.	52	
D	SA7SW1	13,925	100% O.A.	52	
D	SA7SW2	14,825	100% O.A.	52	
D	SA7SE1	19,195	100% O.A.	52	
D	SA7SE2	15,275	100% O.A.	52	
D	SA7NE1	14,475	100% O.A.	52	
D	SA7NE2	13,725	100% O.A.	52	
Е	SA8NW1	16,910	100% O.A.	52	
Е	SA8SW1	19,195	100% O.A.	52	
Е	SA8SE1	23,390	100% O.A.	52	<u> </u>
E	SA8NE1	17,175	100% O.A.	52	60
G	SA3SW2	16,475	100% O.A.	75	75
_					
G	SA3SW3	21,450	100% O.A.	75	75
	+	21,450 11,625	100% O.A. 100% O.A.	75 75	75 75

# PLEASE HAVE THE BUILDING HVAC TECHNICIAN FILL—IN THE NUMBER OF AIR HANDLING UNITS IN EACH BUILDING

BUILDING	NO. OF AHU SYSTEMS
1	32
7	5
11	2
40	20
41	3







## ANSI/ASHRAE 15-1992

Supersedes ANSI/ASHRAE 15-1989

# ASHRAE STANDARD

AN AMERICAN NATIONAL STANDARD

# Safety Code for Mechanical Refrigeration

This standard was approved by the ASHRAE Standards Committee on June 27, 1992; by the ASHRAE Board of Directors on July 2, 1992; and by the American National Standards Institute on October 26, 1992.

ASHRAE Standards are updated on a five-year cycle; the date following the Standard number is the year of ASH-RAE Board of Directors approval. The latest copies may be purchased from ASHRAE Publication Sales Department, 1791 Tullie Circle, NE, Atlanta, GA 30329.

**°**1992

ISSN 1041-2336

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.

1791 Tullie Circle, NE • Atlanta, GA 30329

other component located between the compressor and the stop valve on the discharge side. The pressure-relief device shall discharge into the low-pressure side of the system or in accordance with 10.4.8.

#### 11. INSTALLATION REQUIREMENTS

- 11.1 Foundations. Foundations and supports for condensing units or compressor units shall be of substantial and noncombustible construction. Isolation materials such as rubber are permissible between the foundation and condensing or compressor units.
- 11.2 Guards. Moving machinery shall be guarded in accordance with approved safety standards. 13,14
- 11.3 Safe Access. Reasonable access, including ladders, platforms, and clear space adequate for inspection and servicing of condensing units, compressors, condensers, and other machinery, shall be provided in accordance with approved safety standards.
- 11.4 Enclosures. Condensing units or compressor units with enclosures shall be readily accessible for servicing and inspection.
- 11.5 Water Connections. Water supply and discharge connections shall be made in accordance with approved safety and health standards.

Discharge water lines shall not be directly connected to the waste or sewer systems. The waste or discharge from such equipment shall be through an approved air gap and trap.

- 11.6 Illumination. Illumination adequate for inspection and servicing of condensing units or compressor units shall be provided. 15
- 11.7 Electrical Safety. Electrical equipment and wiring shall be installed in accordance with approved safety standards.⁷
- 11.8 Gas Fuel Equipment. Gas fuel devices and equipment used with refrigerating systems shall be installed in accordance with approved safety standards. 16,17
- 11.9 Air Duct Installation. Air duct systems of air-conditioning equipment for human comfort using mechanical refrigeration shall be installed in accordance with approved safety standards. 18,19

Air ducts passing through a machinery room shall be of tight construction and shall have no openings in such rooms.

11.10 Refrigerant Parts in Air Duct. Joints and all refrigerant-containing parts of a refrigerating system located in an air duct carrying conditioned air to and from an occupied space shall be constructed to withstand a temperature of 700°F (353.3°C) without leakage into the airstream.

11.11 Refrigerant Pipe Joint Inspection. Refrigerant pipe joints erected on the premises shall be exposed to view for visual inspection prior to being covered or enclosed.

#### 11.12 Location of Refrigerant Piping.

- 11.12.1 Refrigerant piping crossing an open space that affords passageway in any building shall be not less than 7.25 ft (2.2 m) above the floor unless against the ceiling of such space as permitted by the local authority.
- 11.12.2 Passages shall not be obstructed by refrigerant piping. Refrigerant piping shall not be placed in any elevator, dumbwaiter, or other shaft containing a moving object or in any shaft that has openings to living quarters or to main exits. Refrigerant piping shall not be placed in exits, lobbies, or stairways, except that such refrigerant piping may pass across an exit if there are no joints in the section in the exit and provided nonferrous tubing of 1.12 in. (28.6 mm) outside diameter and smaller be contained in a rigid metal pipe.
- 11.12.3 Refrigerant piping shall not be installed vertically through floors from one story to another except as follows:
- (a) It may be installed from the basement to the first floor, from the top floor to a machinery penthouse or to the roof, or between adjacent floors served by the refrigerating system.
- (b) For the purpose of interconnecting separate pieces of equipment not located as described by 11.12.3(a) and excluding industrial occupancies, the piping may be carried in an approved, rigid and tight, continuous fire-resisting pipe duct or shaft having no openings into floors not served by the refrigerating system, or it may be carried on the outer wall of the building, provided it is not located in an air shaft, closed court, or similar spaces enclosed with the outer walls of the building. The pipe duct or shaft shall be vented to the outside or to the space served by the system.
- (c) Piping of a direct system where refrigerant quantity is limited per the provisions of Section 7 need not be enclosed where it passes through space served by that system.
- 11.12.4 Refrigerant piping may be installed horizontally in closed floors or in open joist spaces. Piping installed in concrete floors shall be encased in pipe duct. All refrigerant piping shall be properly isolated and supported to prevent damaging vibration or corrosion.

#### 11.13 Machinery Room, General Requirements.

11.13.1 When a refrigerating system is located indoors, a machinery room shall be provided when required by 7.4. Machinery rooms serve for accommodating refrigerating machinery but may also house other mechanical equipment. A machinery room shall be so dimensioned that all parts are easily accessible with adequate space for proper service, maintenance, and operations. There shall be

clear head room of not less than 7.25 ft (2.2 m) below equipment situated over passageways.

11.13.2 Each refrigerating machinery room shall have a tight-fitting door or doors opening outward, self-closing if they open into the building, and adequate in number to ensure freedom for persons to escape in an emergency. There shall be no openings other than doors that will permit passage of escaping refrigerant to other parts of the building.

11.13.2.1 For Group A1 refrigerants, machinery rooms shall be equipped with an oxygen sensor to warn of oxygen levels below 19.5 volume percent since there is insufficient odor warning. The sensor shall be located in an area where refrigerant from a leak is likely to concentrate and shall actuate an alarm and start mechanical ventilation in accordance with 11.13.4.

11.13.2.2 For all other refrigerants, a refrigerant vapor detector shall be located in an area where refrigerant from a leak is likely to concentrate, and an alarm shall be employed. The alarm shall be actuated and the mechanical ventilation started in accordance with 11.13.4 at a value not greater than the corresponding TLV (or toxicity measure consistent therewith).

Exception: For ammonia refer to 11.14(g).

11.13.2.3 Periodic tests of the detector(s), alarm(s), and mechanical ventilating system shall be performed in accordance with manufacturers' recommendations and/or local jurisdictional authority.

11.13.3 Machinery rooms shall be vented to the outdoors utilizing mechanical ventilation in accordance with paragraphs 11.13.4 and 11.13.7.

11.13.4 Mechanical ventilation referred to in paragraph 11.13.3 shall be by one or more power-driven fans capable of exhausting air from the machinery room at least in the amount given in the formula in paragraph 11.13.7. To obtain a reduced airflow for normal ventilation, multiple fans or multispeed fans may be used. The discharge of the air shall be to the outdoors in such a manner as not to cause inconvenience or danger. Provision shall be made for supply air to replace that being exhausted. Openings for supply air shall be positioned to avoid intake of exhaust air. Air supply and exhaust ducts to the machinery room shall serve no other area.

11.13.5 No open flames that use combustion air from the machinery room shall be installed where any refrigerant other than carbon dioxide is used. The use of matches, lighters, halide leak detectors, and similar devices shall not be considered a violation of this paragraph.

11.13.6 Access to the machinery room shall be restricted to authorized personnel.

11.13.7 The minimum mechanical ventilation required to exhaust a potential accumulation of refrigerant due to

leaks or a rupture of the system shall be capable of removing air from the machinery room in the following quantity:

$$Q = 100 \times G^{0.5}$$
  $(Q = 70 \times G^{0.5})$ 

where

Q = the airflow in cubic feet per minute (liters per second),

G = the mass of refrigerant in pounds (kilograms) in the largest system, any part of which is located in the machinery room.

A sufficient part of the mechanical ventilation shall be

(a) operated, when occupied, at least at 0.5 cfm per square foot (2.54 L/s per square meter) of machinery room area or 20 cfm per person (9.44 L/s) and

(b) operable, if necessary for operator comfort, at a volume required to maintain a maximum temperature rise of 18°F (10°C) based on all of the heatproducing machinery in the room.

When a refrigerating system is located outdoors more than 20 ft (6.1 m) from any building opening and is enclosed by a penthouse, lean-to, or other open structure, natural ventilation may be employed as an alternative to mechanical ventilation. The requirements for such natural ventilation are as follows:

The free-aperture cross section for the ventilation of the machinery room shall amount to at least

$$F = G^{0.5}$$
  $(F = 0.138G^{0.5})$ 

where

F = the free opening area in square feet (square meters),

G = the mass of refrigerant in pounds (kilograms) in the largest system, any part of which is located in the machinery room.

Locations of the opening shall be with due regard for the relative density of the refrigerant to air.

Note: The minimum ventilation rates prescribed may not prevent temporary accumulations of flammable refrigerants above the LFL in the case of catastrophic leaks or ruptures. The designer may consider the provisions of NFPA 68²¹ for venting of deflagrations in such cases.

11.14 Machinery Room, Special Requirements. In cases specified in Table 2, the machinery room shall meet the following special requirements in addition to those in 11.13:

(a) There shall be no flame-producing device or continuously operating hot surface over 800°F (427°C) permanently installed in the room.

- (b) Any doors communicating with the building shall be approved, self-closing, tight-fitting fire doors.
- (c) Walls, floor, and ceiling shall be tight and of noncombustible construction. Walls, floor, and ceiling separating the machinery room from other occupied spaces shall be of not less than one-hour fire-resistive construction.
- (d) It shall have an exit door that opens directly to the outer air or through a vestibule equipped with selfclosing, tight-fitting doors.
- (e) Exterior openings, if present, shall not be under any fire escape or any open stairway.
- (f) All pipes piercing the interior walls, ceiling, or floor of such rooms shall be tightly sealed to the walls, ceiling, or floor through which they pass.
- (g) Ventilation in ammonia machinery rooms shall be either (1) run continuously or (2) equipped with a vapor detector that will automatically start the ventilation system and actuate an alarm at the lowest practical detection levels not exceeding 4% by volume, or (3) the machinery room shall conform to Class 1, Division 2, of the National Electrical Code.⁷
- (h) When refrigerants of Groups A2, A3, B2 other than ammonia, and B3 are used, the machinery room shall conform to Class 1, Division 2, of the National Electrical Code.⁷
- (i) Remote pilot control of the mechanical equipment in the machinery room shall be provided immediately outside the machinery room solely for the purpose of shutting down the equipment in an emergency. Ventilation fans shall be on a separate circuit and shall have a control switch located immediately outside the machinery room.
- 11.15 Manual Emergency Discharge of Refrigerant. Some mechanical codes and fire codes require manual emergency discharge or diffusion arrangements for refrigerants. While these provisions are not recommended nor required by this standard, Appendix B has been included to aid in the safe accomplishment of this purpose when required.
- 11.16 Purge Discharge. The discharge of purge systems shall be governed by the same rules as pressure-relief devices and fusible plugs (see 10.4.8) and may be piped in conjunction with these devices.

Note: The reader is alerted that as of the date of this publication, there may be other pending non-safety regulations governing the release of refrigerants that are outside the scope of this standard.

#### 12. FIELD PRESSURE TESTS

#### 12.1 General.

12.1.1 Every refrigerant-containing part of every system that is erected on the premises, except compressors, condensers, evaporators, safety devices, pressure gages, control mechanisms, and systems that are factory-tested,

shall be tested and proved tight after complete installation and before operation.

The highside and lowside of each system shall be tested and proved tight at not less than the lower of the design pressure or the setting of the pressure-relief device protecting the highside or lowside of the system, respectively, except as noted in 12.1.2.

- 12.1.2 Systems erected on the premises using Group A1 refrigerant and with copper tubing not exceeding 0.62 in. (16 mm) outside diameter may be tested by means of the refrigerant charged into the system at the saturated vapor pressure of the refrigerant at 68°F (20°C) minimum.
- 12.2 Test Medium. Oxygen or any combustible gas or combustible mixture of gases shall not be used within the system for testing.

The means used to build up the test pressure shall have either a pressure-limiting device or a pressure-reducing device with a pressure-relief device and a gage on the outlet side. The pressure-relief device shall be set above the test pressure but low enough to prevent permanent deformation of the system components.

12.3 Declaration. A dated declaration of test should be provided for all systems containing 55 lb (25 kg) or more of refrigerant. The declaration should give the name of the refrigerant and the field test pressure applied to the high-side and the lowside of the system. The declaration of test should be signed by the installer and, if an inspector is present at the tests, the inspector should also sign the declaration. When requested, copies of this declaration shall be furnished to the authority having jurisdiction.

#### 13. GENERAL REQUIREMENTS

#### 13.1 Signs.

- 13.1.1 Installation Identification. Each refrigerating system erected on the premises shall be provided with an easily legible permanent sign, securely attached and easily accessible, indicating (a) the name and address of the installer, (b) the kind and initial charge of refrigerant, and (c) the field test pressure applied.
- 13.1.2 Controls and Piping Identification. Systems containing more than 110 lb (50 kg) of refrigerant shall be provided with durable signs having letters not less than 0.5 in. (12.7 mm) in height, designating
- (a) valves or switches for controlling the refrigerant flow, the ventilation, and the refrigeration compressor(s), and
- (b) the kind of refrigerant or secondary coolant contained in exposed piping outside the machinery room. Piping identification shall be in accord with ANSI A13.1, Scheme for Identification of Piping Systems,²² or other industry-recognized guidelines. Legends indicating flow direction, function, temperature, or pressure may also be used in accord with accepted practice.

ACUDAT IS 1000

TABLE 1
Refrigerant^a and Amounts^{b,e}

			Quantity of Refri	gerant per O	ccupied Space
			Lb per		
Refrigerant	Name	Chemical Formula	1000 ft ^{3a}	Vol. <u>%</u>	g/m ^{3c}
Group A1			Ę.		
R-11	Trichlorofluoromethane	CCI ₃ F	1.6	0.4	25.
R-12	Dichlorodifluoromethane	CCI ₂ F ₂	12	4.0	200.
R-13	Chlorotrifluoromethane	CCIF ₃	31	12	500.
R-13B1	Bromotrifluoromethane	CBrF ₃	22	5.7	350.
R-14	Tetrafluoromethane (Carbon tetrafluoride)	CF ₄	25	11	400.
R-22	Chlorodifluoromethane	CHCIF ₂	9.4	4.2	150.
R-113	Trichlorotrifluoroethane	CCI ₂ FCCIF ₂	1.9	0.4	300.
R-114	Dichlorotetrafluoroethane	CCIF ₂ CCIF ₂	9.4	2.1	150.
R-115	Chloropentafluoroethane	CCIF ₂ CF ₃	38	9.4	600.
R-134af	1,1,1,2-Tetrafluoroethane	CH ₂ FCF ₃	16	6.0	250.
R-C318	Octafluorocyclobutane	C ₄ F ₈	50	9.7	800.
R-400	R-12 and R-114	CCI ₂ F ₂ /C ₂ CI ₂ F ₄	d	đ	d
R-500	R-12/152a (73.8/26.2)	CCI2F2/CH3CHF2	16	4.7	250.
R-502	R-22/115 (48.8/51.2)	CHCIF2/CCIF2CF3	19	6.5	300.
R-503	R-23/13 (40.1/59.9)	CHF ₃ /CCIF ₃	25	11	400.
R-744	Carbon Dioxide	CO ₂	<b>5.7</b> ·	5.0	900.
Group A2					
R-142b	1-Chloro-1,1,-Difluoroethane	CH3CCIF2	3.7	1.4	60.
R-152a	1,1-Difluoroethane	CH ₃ CHF ₂	1.2	0.7	20.
Group A3					
R-170	Ethane	C ₂ H ₆	0.5	0.64	8.
R-290	Propane ·	C ₃ H ₈	0.5	0.44	8.
R-600	Butane	C ₄ H ₁₀	0.5	0.34	8.
R-600a	2-Methyl propane (Isobutane)	CH(CH ₃ ) ₃	0.5	0.34	8.
R-1150	Ethene (Ethylene)	C ₂ H ₄	0.4	0.52	6.
R-1270	Propene (Propylene)	C ₃ H ₆	0.4	0.34	6.
Group B1					•
R-123 ^f	2,2-Dichloro-1,1,1- Trifluoroethane	CHCI ₂ CF ₃	0.004	0.001	.06
R-764	Sulfur Dioxide	so ₂	0.016	0.01	0.26
Group B2					
R-40	Chloromethane (Methyl Chloride)	CH ₃ CI	1.3	1.0	21.
R-611	Methyl Formate	нсоосн ₃	0.78	0.5	12.
R-717	Ammonia .	NH ₃	0.022	0.05	.35

The refrigerant safety groups in Table 1 are not part of ASHRAE Standard 15. The classifications shown are a partial list, for the convenience of the user, from ASHRAE Standard 34, which governs in the event of a difference. Because classifications are subject to revision as new data on refrigerants become available, the latest classification by Standard 34 shall be used.

Group A1 - 80% of the cardiac sensitization level for R-11, R-12, R-13B1, R-22, R-113, R-114, R-134a, R-500, and R-502. 100% of the IDLH (21) for R-744. Others are limited by levels where oxygen deprivation begins to occur.

Group A2, A3 - Approximately 20% of LFL.

Group B1 - 100% of IDLH for R-764, and 100% of the measure consistent with the TLV for R-123.

Group B2, B3 - 100% of IDLH or 20% of LFL, whichever is lower.

^b To be used only in conjunction with Section 7.
^c To correct for height, H(feet), above sea level, multiply these values by  $(1 - 2.42 \times 10^{-6} \text{H})$ . To correct for height, h(km), above sea level, multiply these values by  $(1 - 7.94 \times 10^{-2} \text{h})$ .

^d The quantity of each component shall comply with the limits set in Table 1 for the pure compound, and the total volume % of all components shall not exceed 12 volume % (see Appendix A).

[•] The basis of the table amounts is given as follows:

^f Toxicity classification is based on recommended exposure limits provided by chemical suppliers. This rating is provisional and will be reviewed when toxicological testing is completed.

It shall be the responsibility of the owner to establish the refrigerant group for refrigerants used that are not classified in ASHRAE Standard 34.

## TABLE 2 System Application Requirements^a

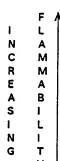
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Ì	

		Occupancy							
Refrigerant	System	Pul	ial,						
Group	Probability ^b	Institutional	Commercial	Industrial					
A1	High	1	2	3					
	Low	4	4	4					
A2	High	5	[.] 5 7	3,6,8					
	Low	7	7	7					
A3	High	9	9	3,6,8					
	Low	9	9	7					
B1	High	1,6	2,6	3,6					
	Low	4	4	4					
B2	High	5,6	5,6	3,6,8					
	Low	7	7	7					
В3	High	9	9	3,6,8					
	Low .	9	9	7					

^{*}Numbers in the table under "Occupancy" refer to rules in Section 7.4

#### 6. REFRIGERANT CLASSIFICATION

**6.1** Refrigerants are classified by ASHRAE Standard 34³ into safety groups illustrated in the following matrix:



	SAFETY	GROUP
Higher Flammability	АЗ	В3
Lower Flammability	A2	B2
No Flame Propagation	A1	B1
	Lower Toxicity	Higher Toxicity

INCREASING TOXICITY

Single-component refrigerants and azeotropic blends so classified are listed in ASHRAE Standard 34 along with the criteria for classification. An abbreviated listing for the convenience of the user is also shown in Table 1.

**6.2** Zeotropic blends are classified by worst case composition of fractionation as follows:



For refrigerants that may change in flammability or toxicity, such as by fractionation of zeotropes, a dual rating, separated by a solidus (/), shall be provided. The first rating shall be the classification of the

refrigerants as formulated. The second rating shall be the classification of the worst case composition of fractionation (see Appendix C for details).

#### 7. REQUIREMENTS FOR REFRIGERANT USE

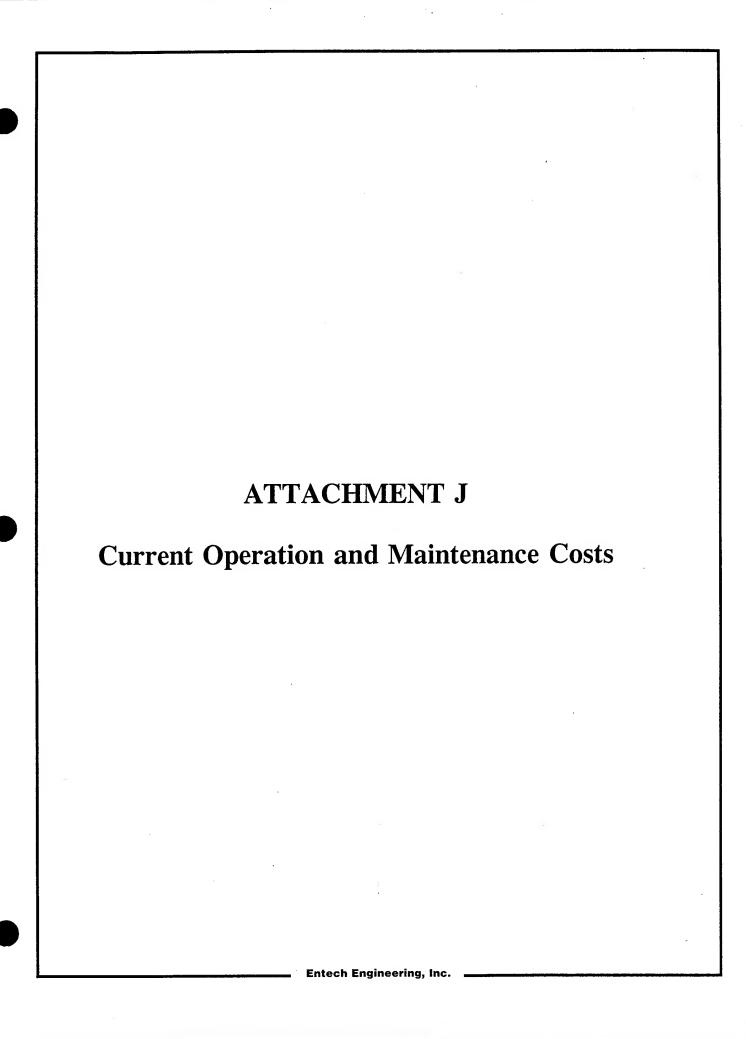
7.1 System Selection. Refrigerating systems shall be applied in accordance with Table 2 and the requirements of Sections 7.2, 7.3, and 7.4.

To use Table 2, determine the occupancy class per Section 4, refrigerant group per ASHRAE Standard 34 (a partial list is given in Table 1 for the convenience of the user), and type of system per Section 5, then locate the rules that apply. When more than one rule exists, each is a limitation on the other.

#### 7.2 General Restrictions—Nonindustrial Occupancy

- 7.2.1 Stairways and Exits. No portion of a refrigerating system shall be installed in or on a public stairway, stair landing, entrance, or exit.
- 7.2.2 Hallways and Lobbies. No portion of a refrigerating system shall interfere with free passage through public hallways, and a refrigerating system installed in a public hallway or lobby shall be limited to (a) unit systems containing not more than the quantities of Group A1 refrigerants specified in Table 1 or (b) sealed absorption systems as specified in Table 3.
- 7.2.3 Unventilated Spaces. When the refrigerant-containing parts of a system are located in one or more unventilated spaces, the volume of the smallest, enclosed occupied space, other than a machinery room, shall be used to determine the permissible quantity of refrigerant in the

^b See Section 5.2 for determining the System Probability.



# WALTEK REED ARM TMEDICAL CENTER DIRECTORATE OF PUBLIC WORKS



Together in Caring

TO: Ed Caulkins ENTECH

FAX #: 4 # OF PAGES: | 4 (incl. cover)

#### COMMENTS:

Here are the O+M costs. Look them over & call me about questions you might have.

Rogina

FROM:

Regina Larrabee Energy Cons. Engineer

FAX# 202-782-838



# DEPARTMENT OF THE ARMY WALTER REED ARMY MEDICAL CENTER WASHINGTON, DC 20307-5001



June 7, 1995

Directorate of Public Works

Mr. Edward Caulkins
Entech Engineering, Inc.
4 South Fourth Street
P.O. Box 32
Reading, PA 19603

Dear Mr. Caulkins:

Reference telephone conversations between our Ms. Regina Larrabee and yourself on 24 May and 5 June 1995 requesting operating cost information for the Life Cycle Cost study of the chilled water plants at WRAMC enclosed is the information.

Enclosure 1 is a series of computer printouts showing an accounting of in-house work (operations and maintenance) performed on the chillers for FY92-FY94. Enclosure 2 is a listing of contract repair costs for the same for FY92-FY94.

My point of contact in this matter is Regina M. Larrabee at 202-782-0315.

Sincerely,

Henry J. Henley, P.E.

Director

Directorate, Public/Work

Enclosures

Bldg 49

CUMENT	PH	DESC	AMT	·
8E0630028	002	A/C PLANT ANNUAL OPE RATIONS, BLDG.# 49	2,430.48	Operation: Costs FY 92
3E063022M	001	6201 CHILLER COMPRES SDR, 1 EA.	2,083.25	
3E063022M	002	6202 WATER TREATMENT EQUIPMENT, 1 EA.	2,379.35	M. F
3E063022M	003	6203 PURGE SYSTEM, 1 EA.	81.33	Maintenance FY92
3E063022M	005	6205 WATER STRAINERS , 2 EA.	27.11	·
			7,201.52	•
	002	E.P.S. INSTALL FLANGES ASSIST IN FLANGE INS TALATION	84.28 159.24 1,190.46	
025293R 030423R 3E063003S	002	FAB/INST COUNTER TOP TRBL SHOOT WIRNG SYS A/C PLANT ANNUAL OPE RATIONS, BLDG.# 49	224.48 422.72 742.96	- Operations FY93
3E063023M	001	6201 CHILLER COMPRES SOR, 1 EA.	6,235.30	
3E063023M (	002	6202 WATER TREATMENT EQUIPMENT, 1 EA.	2,683.89	M + 1 5100
3E063023M (	003	6203 PURGE SYSTEM, 1 EA.	108.44	Maintenance FY93
3E063023M	004	6204 CHILL WTR PUMP & MTR, 2 EA.	867.52	
			12,719.29	•
3E000014M (		ANNUAL ROOF MAINT AN D INSPECT BLDG.49	537.38	Mi E EVAN
(E049024M)	007	ANNAUL MAINTENANCE C MOTOR CONTROL CENTE	396.30	Maintenance FY94
				<b></b> 1 .

CUMENT	PH	DESC	BLDG 49 AMT	
		R,10 EACH ]		_
3E060494M	001	6201 CHILLER COMPRES SOR, 1 EA.	3,876.73	· ·
3E060494M	002	6202 WATER TREATMENT EQUIPMENT, 1 EA.	216.88	
3E060494M	003	6203 PURGE SYSTEM, 1 EA.	379.54	
3E060494M	006	6206 CONDENSER PUMP, 1 EA.	54.22	Maintenance Fy94
3E060494M	008	6215 AIR COMPRESSOR, 1 EA.	511.40	Maintenance FY94 (cont'd)
3E060494M	009	6220 GATE & BALL VAL VES, 20 EA.	243.99	•
3E060494M	010	6221 CHECK VALVES, 5 EA.	81.33	
3E060494M	011	6200 TOWER MAIN, 1 E A.	2,812.06	
060494M	099	DEFICIENCY PHASES 1 THRU 11	81.33	<i>J</i>
3E098354R		ELECTRICAL SHOP	237.78	Repair F194
			9,428.94	•
3E049025M	001	WEEKLY OPERATION INS	39.63	Hamb Fy 95
				•
			39.63	
sum			29,389.38	•

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press return for next page

PH FAC DESC AMT 11865BE063002S 001 00048 A/C PLANT ANNUAL OPERATIO 164698.48

NS, BLDG.# 48

A/C PLANT ANNUAL OPERATIO 963.84 11865BE063003S 001

NS, BLDG.# 48

**** 165662.32 sum

11865BE063002S 004 00054 A/C PLANT ANNUAL OPERATIO 321.28

NS, BLDG.# 54B

**** 321,28 sum

Bld954.

FY92

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11845BE043003S	001		A/C PLANT ANNUAL OPERATIONS, BLDG.# 48	166262.4 FY93
		****		
		sum		166583.68
11865BE063003S	004	00054	A/C PLANT ANNUAL OPERATIONS, BLDG.# 548	642.56 Bldg 54 FY 93
		****		
		sum		642.56

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11865BE060484S	001	00048	A/C PLANT ANNUAL OPERATIONS, BLDG.# 48	167668	Blda 48
11865BE060485S	001		A/C PLANT ANNUAL OPERATIONS, BLDG.# 48	1445.76	Bldg 48 Fy94
11865BE0630038	001		A/C PLANT ANNUAL OPERATIO NS, BLDG.# 48	1767.04	F) 77
		**** Sum	;	170880.8	
		Jun		1,0380.8	011.54
11865BE060484S	004	00054	A/C PLANT ANNUAL OPERATIONS, BLDG.# 548	80.32	BWg 54 FY 94
		****	Adj beboin with		FY 94
DOC	PH	FAC	DESC	AMT	
		sum		80.32	

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Maintenance

CUMENT	PH	DESC	CHILLERS AMT	<b>.</b>
BE063012M	001	6201 CHILLER COMPRES SOR, 6 EA.	49,357.63	< Bldg 48 }
BE063022M	001	6201 CHILLER COMPRES SOR, 1 EA.	2,083.25	Bidg 49 FY 92
BE063032M	001	6201 CHILLER COMPRES SORS, 3 EA.	9,811.97	Bldg 54
FE0038521	001	REPLACE 35 TON CHILL ER, BLDG # 156, FORE ST GLEN.	420.40	
FE003852J	002	REPLACE 35 TON CHILL ER, BLDG# 156, FORES T GLEN.	1,189.90	ther
FE003852J	004	REPLACE 35 TON CHILL ER, BLDG# 156, FORES T GLEN.	20,316.00	other s
FE003852J	005	REPLACE 35 TON CHILL ER, BLDG# 156, FORES T GLEN.	2,330.35	
•			85,509.50	
BE063013M	001	6201 CHILLER COMPRES SOR, 6 EA.	37,588.01	← Bldg 48     FY93
BE063023M	001	6201 CHILLER COMPRES SOR, 1 EA.	6,235.30	← Bldg 49 } FY93
BE063033M	001	6201 CHILLER COMPRES SORS, 3 EA.	11,087.99	E Bldg 54)
FE060 <del>373</del> #	E00-	A115 CHILLER (TUBES)	54.22	- other chillers

54,965.52

CUMENT	PH	DESC	CHILLERS AMT			
3E060544M	001	6201 CHILLER COMPRES SORS, 3 EA.	9,542.72	← BH	g 54 )	FYAL
3E060544M	012	DEFF MAINT 6201 CHIL LER COMPRESSORS, 3 E A.	54.22	€ Bld	9 54)	Fy 94
			45,925.54			
		6201 CHILLER COMPRES	759.08	F195		
8E060545M	001	50RS, 3 EA.	189.77			
			948.85			

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#### WRAMC CHILLER REPAIR COSTS Contracts, FY 92 -FY 94

DPir name.

Prepared: 09 Sep 94

14:04

06/08/95

DOC REG # WORK ORDER DESCRIPTION AMOUNT 1238-0600 BE FECHR 1J Repair chillers 60,912.25 BE 00500 1J 1276-0606 Replace oil cooler on 3,797.14 chiller BE 00016 2J Repair chiller water 1284-0600 2,500.00 pump 1288-0601 BE 00004 2J Repair chiller water 1,800.00 pump 1304-0605 Replace 1" condensate 11,008.00 lines BE 00161 2J 2063-0601 Repair chill water 2,500.00 coil 2080-0603 BE 00240 2J 2,500.00 Repair seals on chill water pump 2080-0605 BE 00234 2J Repair water pumps 2,500.00 2084-0600 BE 00248 2J Repair chiller 2,800.00 2086-0600 BE 00260 2J Analyze oil sample 600.00 from chiller for contamination Evaluate gear box 2086-0601 BE 00138 2J 1,500.00 2087-0600 BE 00249 2J Repalce HEPA filters. 2,500.00 Exhaust #6 2087-0601 BE 00241 2J Replace electric pump 2,500.00 bearing 2100-0602 BE 00279 2J Repair air compressor 2,500.00 2100-0603 BE 00282 2J Repair chill water 6,064.43 amuq -2132-0601 FE-00341 2J Chillers 44,711.00 2203-0603 BE 00459 2J Repair chill water 2,500.00 pump 2209-0600 BE 00426 2J Service 5 chiller 2,000.00 starters · FY-92 Subtotal 155, 192.82

Encl Z : -

### WRAMC CHILLER REPAIR COSTS Contracts, FY 92 - FY 94

Prepared: 09 Sep 94

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•	DOC REG #	WORK ORDER	DESCRIPTION	AMOUNT	Blog
	2323-0609	BE 00248 2J	Replace chiller #3	419,451.00	48
	3095-0601	BE 00138 3J	Rebuild gear box	12,590.00	2
	3083-0602	BE 00267 3J	Repair/calibrate chiller	2,500.00	54
	3083-0603	BE 00253 3J	Calibrate chiller	1,600.00	48
	3202-0600	BE 00582 3J	Repair on chiller	2,500.00	54
	3209-0601	FE 00591 3J	Repair chiller cir	2,980.50	-
			FY 93 Subtotal	441621.50	
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	4021-0600	BE 00123 4J	Balance air unit	2,000.00	54
	4080-0601	BE 00249 4J	Repair refrigerant leaks	7,952.00	48
	4097-0601	BE 00283 4J	Replace bearing on chiller	3,765.00	<del>4</del> 8
	4111-0602	BE 00319 4J	Repair chiller #5	30,677.00	48
	4158-0601	BE 00396-4J	Repair chiller #6	200.00	48
7	4171-0600	BE 00415 4J	Repair Vane Chiller #6	1,000.00	<b>48</b>
	4172-0601	BE 00369 4J	Test/balance air flow	2,500.00	545
-	4181-0600	BE 00439 4J	Repair chiller #4	1,000.00	48
	4193-0600	BE 00405 4J	Repair chiller	7,054.75	54
_	4216-0601	BE 00491 4J	#4 chiller take-down	3,453.00	48
	4220-0600	BE 00491 4J	#4 chiller repair	13,000.00	48
-			FY 94 Subtotal	72,601.75	
			Grand-Total	669,416.07	_

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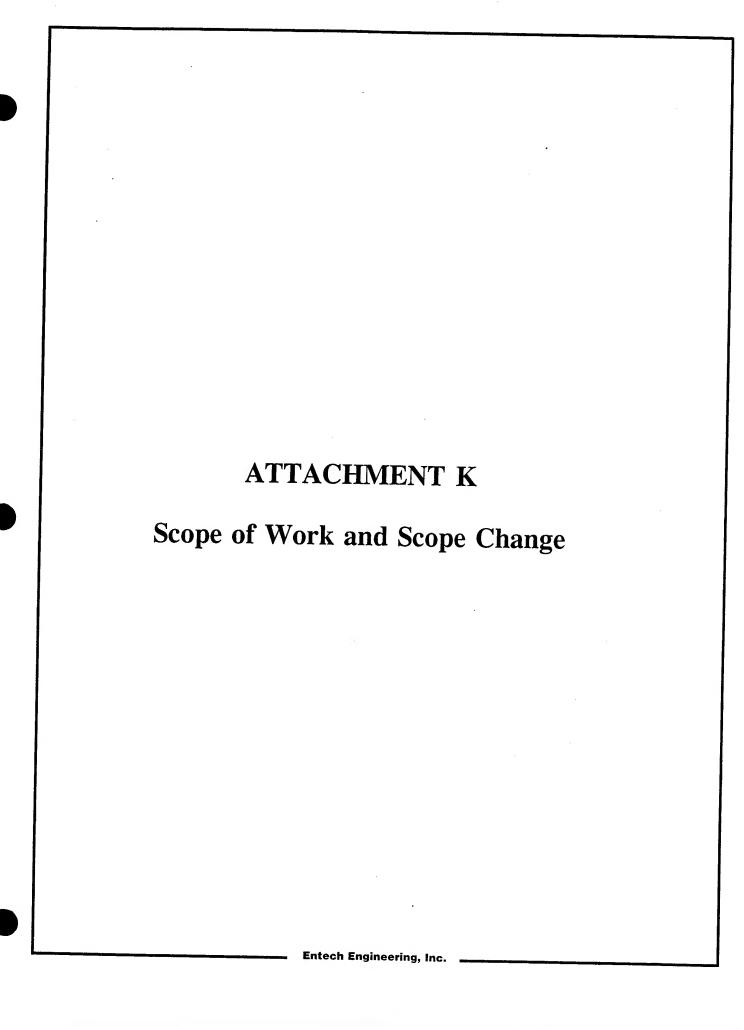
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(Contractor must submit four copies of invoice)

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### CONTRACT NO. DACAO1-94-D-0037

### DELIVERY ORDER NO. 0003

### SCOPE OF WORK FY 94 CHILLER SYSTEM STUDY FOR

WALTER REED MEDICAL CENTER

### TABLE OF CONTENTS

- 1. BRIEF DESCRIPTION OF WORK
- 2. GENERAL
- 3. PROJECT MANAGEMENT
- 4. SERVICES AND MATERIALS
- 5. PROJECT DOCUMENTATION
  - 5.1 ECIP Projects
  - 5.2 Non-ECIP Projects
  - 5.3 Non-feasible ECOs
- 6. DETAILED SCOPE OF WORK
- 7. WORK TO BE ACCOMPLISHED
  - 7.1 Perform a Limited Site Survey
  - 7.2 Evaluate Selected ECOs
  - 7.3 Combine ECOs into Recommended Projects
  - 7.4 Submittals, Presentations and Reviews

### **APPENDIXES**

- A. DETAILED SCOPE OF WORK
- B. EXECUTIVE SUMMARY GUIDELINE
- C. REQUIRED DD FORM 1391 DATA
- D. ENERGY CONSERVATION OPPORTUNITIES
- E. LIST OF AREAS/FACILITIES TO BE SURVEYED

- 1. BRIEF DESCRIPTION OF WORK: The Architect Engineer (AE) shall:
- 1.1 Perform a limited site survey of specific buildings or areas to collect all data required to evaluate the specific ECOs included in this study.
- 1.2 Evaluate specific ECOs to determine their energy savings potential and economic feasibility.
  - 1.3 Provide project documentation for recommended ECOs as detailed herein.
- 1.4 Prepare a comprehensive report to document all work performed, the results and all recommendations.

### 2. GENERAL

- 2.1 This Study is limited to the evaluation of the specific buildings, systems, or ECOs listed in APPENDIX A, DETAILED SCOPE OF WORK.
- 2.2 The information and analysis outlined herein are considered to be minimum requirements for adequate performance of this Study.
- 2.3 For the buildings, systems or ECOs listed in APPENDIX A, DETAILED SCOPE OF WORK,, all methods of energy conservation as relates to chiller systems, and which are reasonable and practical shall be considered, including improvements of operational methods and procedures as well as the physical facilities. All energy conservation opportunities which produce energy or dollar savings shall be documented in this report. Any energy conservation opportunity considered unfeasible shall also be documented in the report with reasons for elimination.
- 2.4 The "Energy Conservation Investment Program (ECIP) Guidance", described in letter from DAIM-FDF-U, dated 10 Jan 1994 establishes criteria for ECIP projects and shall be used for performing the economic analyses of all ECOs and projects. The Program Life Cycle Cost In Design (LCCID), has been developed for performing life cycle cost calculations in accordance with ECIP guidelines and is referenced in the ECIP Guidance. If any program other than LCCID is proposed for life cycle cost analysis, it must use the mode of calculation specified in the ECIP Guidance. The output must be in the format of the ECIP LCCA summary sheet, and it must be submitted for approval to the Contracting Officer.
- 2.5 Energy conservation opportunities determined to be technically and economically feasible shall be developed into projects acceptable to installation personnel. This may involve combining similar ECOs into larger packages which will qualify for ECIP, or O&M funding, and determining in coordination with installation personnel the appropriate packaging and implementation approach for all feasible ECOs.

- 2.5.1 Projects which qualify for ECIP funding shall be identified, separately listed, and prioritized by the Savings to Investment Ratio (SIR).
- 2.5.2 All feasible Non-ECIP projects shall be ranked in order of highest to lowest SIR.
- 2.5.3 At some installations Energy Conservation and Management (ECAM) funding will be used instead of ECIP funding. The criteria for each program is the same. The Director of Engineering and Housing will indicate which program is used at this installation. This Scope of Work mentions only ECIP, however, ECAM is also meant.

### 3. PROJECT MANAGEMENT

- 3.1 Project Managers. The AE shall designate a project manager to serve as a point of contact and liaison for work require under this contract. Upon award of this contract, the individual shall immediately be designated in writing. The AE's designated project manager shall be approved by the Contracting Officer prior to commencement of work. This designated individual shall be responsible for coordination of work required under this contract. The Contracting Officer will designate a project manager to serve as the Government's point of contact and liaison for all work required under this contract. This individual will be the Government's representative
- 3.2 Installation Assistance. The Commanding Officer or authorized representative at the installation will designate an individual to assist the AE in obtaining information and establishing contacts necessary to accomplish the work required under this contract. This individual will be the installation representative
- 3.3 Public Disclosures. The AE shall make no public announcements or disclosures relative to information contained or developed in this contract, except as authorized by the Contracting Officer
- 3.4 Meetings. Meetings will be scheduled whenever requested by the AE or the Contracting Officer for the resolution of questions or problems encountered in the performance of the work. The AE's project manager and the Government's representative shall be required to attend and participate in all meetings pertinent to the work required under this contract as directed by the Contracting Officer. These meetings, if necessary, are in addition to the presentation and review conferences.
- 3.5 Site Visits. Inspections, and Investigations. The AE shall visit and inspect/investigate the site of the project as necessary and required during the preparation and accomplishment of the work
  - 3.6 Records

- 3.6.1 The AE shall provide a record of all significant conferences, meetings, discussions, verbal directions, telephone conversations, etc., with Government representative(s) relative to this contract in which the AE and/or designated representative(s) thereof participated. These records shall be dated and shall identify the contract number, and modification number if applicable, participating personnel, subject discussed and conclusions reached. The AE shall forward to the Contracting Officer within ten calendar days, a reproducible copy of the records.
- 3.6.2 The AE shall provide a record of requests for and/or receipt of Government furnished material, data, documents, information, etc., which if not furnished in a timely manner, would significantly impair the normal progression of the work under this contract. The records shall be dated and shall identify the contract number and modification number, if applicable. The AE shall forward to the Contracting Officer within ten calendar days, a reproducible copy of the record of request or receipt of material
- 3.7 Interviews. The AE and the Government's representative shall conduct entry and exit interviews with the Director of Public Works before starting work at the installation and after completion of the field work. The Government's representative shall schedule the interviews at least one week in advance
- 3.7.1 Entry. The entry interview shall describe the intended procedures for the survey and shall be conducted prior to commencing work at the facility. As a minimum, the interview shall cover the following points:
- ♦ Schedules
- Names of energy analysts who will be conducting the site survey
- Proposed working hours
- Support requirements from the Director of Public Works
- 3.7.2 Exit. The exit interview shall briefly describe the items surveyed and probable areas of energy conservation. The interview shall also solicit input and advice from the Director of Public Works.
- 4. **SERVICES AND MATERIALS**. All services, materials (except those specifically enumerated to be furnished by the Government), labor, supervision and travel necessary to perform the work and render the data required under this contract are included in the lump sum price of the contract.
- 5. **PROJECT DOCUMENTATION**. All energy conservation opportunities which the AE has considered shall be included in one of the following categories and presented in the report as such.
- 5.1 ECIP Projects. To qualify as an ECIP project, an ECO, or several ECOs which have been combined, must have a construction cost estimate greater than \$300,000, a Savings to Investment Ratio greater than 1.25 and a simple playback period of less than ten years. For ECAM projects, the \$300,000 limitation may not apply in such cases, the AE shall check with the installation for guidance. The overall project and each discrete part of the project shall have an SIR greater than

- 1.25. All projects meeting the above criteria shall be arranged as specified in paragraph 2.6.1 and shall be provided with programming documentation. Programming documentation shall consist of a DD Form 1391, life cycle cost analysis (LCCA) summary sheet(s) (with necessary backup data to verify the numbers presented), and a Project Development Brochure(PDB). A life cycle cost analysis summary sheet shall be developed for each ECO and for the overall project when more than one ECO are combined. The energy savings for projects consisting of multiple ECOs must take into account the synergistic effects of the individual ECOs
- 5.2 Non-ECIP Projects. Projects which do not meet ECIP criteria with regard to cost estimate or play back period, but which have a SIR greater than 1.25 shall be documented. Projects or ECOs in this category shall be arranged as specified in paragraph 2.5.2 and shall be provided with the following documentation: the life cycle cost analysis (LCCA) summary sheet completely filled out, a description of the work to be accomplished, backup data for the LCCA, i.e., energy savings calculations and cost estimate(s), and the simple play back period. The energy savings for projects consisting of multiple ECOs must take into account the synergistic effects of the individual ECOs. In addition these projects shall have the necessary documentation prepared, as required by the Government's representative, for one of the following categories:
- 5.2.1.~0 & M Energy Projects: An O&M Energy project is one that results in needed maintenance or repair to an existing facility, or replaces a failed or failing existing facility, and also results in energy savings. The criteria are similar to the criteria for ECIP projects, i.e., \$300,000 construction cost,  $SIR \geq 1.25$ , and simple play back period of less than ten years. In addition, if the project would replace a system or equipment that is considered failed or failing due solely to obsolete technology or inefficiency, the equipment to be replaced must have been in use for at least three years; and the simple play back period must be three years or less.
- 5.2.2. Low Cost/No Cost Projects. These are projects which the Director of Public Works (DPW) can perform using his resources. Documentation shall be as required by the DPW.
- 5.3 Non-feasible ECOs. All ECOs which the AE has considered but which are not feasible, shall be documented in the report with reasons and justifications showing why they were rejected.
- 6. **DETAILED SCOPE OF WORK**. The Detailed Scope of Work is contained in APPENDIX A, DETAILED SCOPE OF WORK..

### 7. WORK TO BE ACCOMPLISHED.

7.1 Perform A Limited site survey. The AE shall obtain all necessary data to evaluate the ECOs or projects by conducting a site survey. The AE shall document his site survey on forms developed for the survey, or standard forms, and submit these completed forms as part of the report.

his site survey on forms developed for the survey, or standard forms, and submit these completed forms as part of the report.

- 7.2 Evaluate Selected ECOs. The AE shall analyze the ECOs listed in APPENDIX A, DETAILED SCOPE OF WORK,. These ECOs shall be analyzed in detail to determine their feasibility. Savings to Investment Ratios (SIRS) shall be determined using current ECIP guidance. The AE shall provide all data and calculations needed to support the recommended ECO. All assumptions and engineering equations shall be clearly stated. Calculations shall be prepared showing how all numbers in the CEO were figured. Calculations shall be an orderly step by step progression from the first assumption to the final number. Descriptions of the products, manufacturers catalog cuts, pertinent drawings and sketches shall also be included. Construction cost estimates shall be provided and shall break out the costs associated with rehab work (architectural, electrical, mechanical) where applicable. A life cycle cost analysis summary sheet shall be prepared for each ECO and included as part of the supporting data
- 7.3 Combine ECOs Into Recommended Projects. During the Interim Review Conference, as outlined in paragraph 7.4.1, the AE will be advised of the DPW's preferred packaging of recommended ECOs into projects for implementation. Some projects may be a combination of several ECOs, and others may contain only one. These projects will be evaluated and arranged as outlined in paragraphs 5.1, 5.2, and 5.3. Energy savings calculations shall take into account the synergistic effects of multiple ECOs within a project and the effects of one project upon another. The results of this effort will be reported in the Final Submittal per par 7.4.2.
- 7.4 Submittals, Presentations and Reviews. The work accomplished shall be fully documented by a comprehensive report. The report shall have a table of contents and shall be indexed Tabs and dividers shall clearly and distinctly divide sections, subsections, and appendices. All pages shall be numbered. Names of the person? primarily responsible for the project shall be included. The AE shall give a formal presentation of the interim submittal to installation, command, and other Government personnel. Slides or view graphs showing the results of the study to date shall be used during the presentation. During the presentation, the personnel in attendance shall be given ample opportunity to ask questions and discuss any changes deemed necessary to the study. A review conference will be conducted the same day, following the presentation. Each comment presented at the review conference will be discussed and resolved or action items assigned. It is anticipated that the presentation and review conference will require approximately one working day. The presentation and review conference will be at the installation on the date agreeable to the Director of Public Works, the AE and the Government's representative. The Contracting Officer may require a re-submittal of any document(s), if such document(s) are not approved because they are determined by the Contracting Officer to be inadequate for the intended purpose.

- ECOs. The report shall indicate the work which has been accomplished to date, illustrate the methods and justifications of the approaches taken and contain a plan of the work remaining to complete the study. Calculations showing energy and dollar savings, SIR, and simple play back period of all the ECOs shall be included. The results of the ECO analyses shall be summarized by lists as follows:
- 7.4.1.a. All ECOs eliminated from consideration shall be grouped into one listing with reasons for their elimination as discussed in par 5.3.
- 7.4.1.b. All ECOs which were analyzed shall be grouped into two listings, recommended and non-recommended, each arranged in order of descending SIR. These lists may be subdivided by building or areas appropriate for the study. The AE shall submit the Scope of Work and any modifications to the Scope of Work as an appendix to the report. A narrative summary describing the work and results to date shall be a part of this submittal. At the Interim Submittal and Review Conference, the Government's and AE's representatives shall coordinate with the Director of Public Works to provide the AE with direction for packaging or combining ECOs for programming purposes and also indicate the fiscal year for which the programming or implementation documentation shall be prepared. The survey forms completed during this Study shall be submitted with this report. The survey forms only may be submitted in final form with this submittal. They should be clearly marked at the time of submission that they are to be retained. They shall be bound in a standard three ring binder which will allow repeated disassembly and re-assembly of the material contained within.
- 7.4.2 Final Submittal. The AE shall prepare and submit the final report when all sections of the report are 100% complete and all comments from the interim submittal have been resolved. The AE shall submit the Scope of Work for the study and any modifications to the Scope of Work as an appendix to the submittal. The report shall contain a narrative summary of conclusions and recommendations, together with all raw and supporting data, methods used, and sources of information. The report shall integrate all aspects of the study. The recommended projects, as determined in accordance with paragraph 5, shall be presented in order of priority by SIR. The lists of ECOs specified in paragraph 7.4.1 shall be included for continuity. The final report and all appendices shall be bound in standard three ring binders which will allow repeated disassembly and re-assembly. The final report shall be arranged to include:
- 7.4.2.a. An Executive Summary to give a brief overview of what was accomplished and the results of this study using graphs, tables and charts as much as possible (See APPENDIX B, EXECUTIVE SUMMARY GUIDELINE, for minimum requirements).
- 7.4.2.b. The narrative report describing the problem to be studied, the approach to be used, and the results of this study.
  - 7.4.2.c. Documentation for the recommended projects.

- 1) Backup information as specified in par 5.1.
- 7.4.2.d. Appendices to include as a minimum:
  - 1) Energy cost development and backup data
  - 2) Detailed calculations
  - 3) Cost estimates
  - 4) Computer printouts (where applicable)
  - 5) Scope of Work

### CONTRACT NO. DACA01-94-D-0037

DELIVERY ORDER NO. 0003

### APPENDIX A DETAILED SCOPE OF WORK, FY 94 CHILLER SYSTEM STUDY WALTER REED MEDICAL CENTER, WASHINGTON D.C.

- 1. All facilities to be investigated in this Study are located at WALTER REED MEDICAL CENTER. WASHINGTON D.C..
- 2. The General Scope of Work outlines requirements for the Study and the report; and the detailed scope of work lists the specific areas to be Studyed. If any conflicts arise between the General and the Detailed scopes of work, the Detailed Scope of Work shall govern.
- 3. The work consists of identifying and evaluating energy conservation opportunities (ECOs) for chiller systems in specific areas or facilities. A list of suggested ECOs is provided in APPENDIX D, CHILLER SYSTEM ECOS,. The ECOs in APPENDIX D, are to be evaluated as applicable for the area or facilities listed in APPENDIX E, LIST OF AREAS/FACILITIES TO BE STUDYED,.
- 4. Completion and Payment Schedule: The following schedule shall be used as a guide in approving payments on this contract. The Contracting Officer's Representative (COR) will be Mr. Bryant Wilkins at the Norfolk District, COE

Interm Submittal

150 Calendar Days after Notice to Proceed Pre-Final Submittal 250 Calendar Days after Notice to Proceed

Final Submittal

300 Calendar Days after Notice to Proceed

### MILESTONE

PERCENT OF CONTRACT AMOUNT AUTHORIZED FOR PAYMENT

10 **Entry Interview** 25 Completion of Field Work Receipt of Interim Submittal **75** Completion of Interim Presentation & Review 85 Receipt of Final Submittal 100

- 5. The installation representative for this contract will be Ms. Regina Larrabee, Energy Program Coordinator, Directorate of Public Works, WALTER REED MEDICAL CENTER. (202) 576-0315, FAX (202) 576-8383.
- 6. Government Furnished Information: The following documents are available for the use of the AE.
- As built drawings (as available) of buildings/systems
- Energy Conservation Investment Program (ECIP) Guidance, dated 10 Jan 1994
- ETL 11103282, Energy Conservation

- ◆ TM 58002, Cost Estimates, Military Construction
- ♦ AR 41515, 1 Jan 84, Military Construction, Army (MCA) Program Development
- Architectural and Engineering Instructions, Design Criteria; Chapter 13, Air Conditioning, Dehumidification, Evaporative Cooling, Heating, Mechanical Ventilation and Refrigeration, 9 December 1991
- ◆ The latest MCP Index -

AGENCY

7. Direct Distribution of Submittals: The AE shall make direct distribution of correspondence, minutes, report submittals, and responses to comments as indicated by the following schedule:

CORRESPONDENCE

TIGENOT	E	EXECUTIVE SUMMARIES REPORTS FIELD NOT				
Commander Walter Reed Medical Center ATTN: HSHL-PW (Ms. Larrabee) DPW/Energy Engineer Washington D.C. 20307	1	3	3	1*		
Commander US Army Medical Command (Provisi ATTN: MCFA-E (Mr. Robert Jay) 2050 Worth Road Fort Sam Houston, TX 78234-6000	onal)	1	1	•		
Commander U. S. Army Engineer District, Norfoll ATTN: CENAO-EN-MP (Mr Mlecik) 803 Front Street Norfolk, VA 23510	k 1	<b>3</b>	3	1*		
Commander USAED, North Atlantic ATTN: CENAD-EN-MM (Mr Wong) 90 Church Street New York, NY 10007	-	1	1	-		

Commander USAED, Mobile ATTN: CESAMENCM (Battaglia) PO Box 2288; Mobile, AL 36628	1	1	1	-
Commander				
US Army Corps of Engineers				
ATTN: CEMPET (Mr Gentil)				
20 Massachusetts Avenue NW				
Washington, DC, 20314 1000	•	1	•	-
Commander US Army Logistics Evaluation Agency ATTN: LOEAPL (Mr Keath) New Cumberland Army Depot				
New Cumberland, PA, 17070 5007	-	1	•	•

^{*} Field Notes submitted in final form at interim submittal.

Progress reports will be prepared on a monthly basis to highlight the significant events of the prior month. This is especially true of actions completed, problems discovered, schedule changes and ECO developments. The progress reports will accompany monthly billings and will form the basis for progress meetings.

8. A computer program titled Life Cycle Costing in Design (LCCID) is available from the BLAST Support Office in Urbana, Illinois for a nominal fee. This computer program can be used for performing the economic calculations for ECIP and non-ECIP ECOs. The AE is encouraged to obtain and use this computer program. The BLAST Support Office can be contacted at 144 Mechanical Engineering Building, 1206 West Green Street, Urbana, Illinois 61801. The telephone number is (217) 3333977 or (800) 8425278.

### 9. METHOD

### 9.1 INVESTIGATION OF EXISTING CONDITIONS

The Contractor will collect information on the existing chilled water systems and operations so as to have a reasonable understanding of operations, costs, energy use, problems, limitations, future needs, etc. This will be accomplished in the following steps.

<u>Data Gathering.</u> The Contractor will collect available data that will assist in energy use evaluations and recommendations. A partial list of data that will be sought are:

Energy bills and summaries Prior studies and energy reports (if any) Schedules Chilled water piping drawings
Floor plans or building data
Site plans.
Maintenance records
Copies of other drawings needed
Proposals from vendors or contractors
Cooling load profiles
Chilled water plant operator logs
Temperature histories
Energy management system profile
Others

<u>Site Visits, Inspections.</u> A team of The Contractor's engineers (normally two or three people) will visit the applicable facilities. The inspection will cover areas shown in the study. Operators may be briefly interviewed for about the operation of individual areas and systems.

Nameplate data will be collected as well as observations of arrangements, physical condition and effectiveness. The following measurements will be normally collected:

Temperature levels at supply and return points Electrical loads, voltage, amperage, kVA, and P.F. Chilled water flow rates Schedules (where possible) Dimensions

Photographs will be taken of key areas for later reference.

### ANALYSIS OF SYSTEMS

The Contractor will utilize standard methods of engineering calculations to understand current energy consumption in such detail as to permit identification of further improvement options.

<u>Heat Gain Calculations.</u> A calculation of each facility's theoretical energy use due to building heat gain will be made using The Contractor's computer models. Note that the internal formulas are based upon ASHRAE recommendations. Heat gain calculations are a significant product of this analysis since they break each building down by peak load and usage.

The combined estimates of chilled water use will be analyzed against actual energy usage to identify trends, losses, efficiencies, and other important correlations. By taking this approach, actual chilled water consumption and the potential for future cost reductions can be more clearly identified.

The analysis will also consider chilled water loads that are expected to increase or reduce in the future due to changes in facility use, change of mission, new additions, etc.

<u>Chilled Water Distribution Losses.</u> Based upon the known arrangement and condition of the chilled water lines, a calculation will be made showing the average rate of distribution losses and the overall costs associated with normal operation.

<u>Chiller System Losses.</u> Together with the existing chiller efficiency tests, a calculation will be made showing total chiller system losses including cooling tower, partial load efficiencies, and other losses as may apply.

Other Miscellaneous Uses and Losses. The study will also consider costs and energy usage related to other chilled water usage not discussed above. Each miscellaneous use may include leaks, overcooling, etc.

Regression Analysis. A calculation will be made using historical energy consumption, weather data, occupancy, and other variables for potential mathematical correlation. Such findings will be used to support other calculations.

Balance of Energy Supply with Users/Losses. By combining all calculations made in this study, an attempt will be made to match actual chilled water production with calculated energy use. By balancing these factors, a model of chilled water use can be made for the total base.

<u>Utility Rate Analysis.</u> A separate calculation will be performed for each type of energy conserved - gas, oil, and electric. The incremental cost of fuel will be used for all energy savings options.

The current rate structure that applies to electrical use will be checked. Using a computerized program developed by The Contractor, all bills for the past two years will be checked for accuracy. This program will also determine the incremental cost of each kW of demand and kWH of usage for calculations of ECIs and other reports. A copy of the applicable analysis, together with sample bills and published tariffs will be included in the report.

<u>Check Regulatory Requirements.</u> Where applicable, a check of all regulatory bodies affecting CFC emissions will be made. Any recommendations that are subsequently made, must be made in compliance with such requirements.

### **ENERGY CONSERVATION OPPORTUNITY INVESTIGATIONS**

The Contractor will investigate all reasonable options of saving energy and energy-related costs in the operation of the chilled water production and distribution systems. The approach used to identify each option is briefly described below.

<u>Existing Conditions.</u> This section describes the nature of the existing operating system, its energy use, costs, advantages and disadvantages. Data is usually transferred to this section from the calculations.

<u>Energy Conservation Opportunities.</u> This section describes improvement ideas that are different from the existing conditions. They may describe a capital projects, modifications, or O&M procedures. The resulting improvements are described, energy costs, quantities and arrangements are briefly noted. Sufficient conceptual studies will be executed to determine feasibility, generate anticipated operational data and estimating values.

<u>Construction Cost Estimate</u>. A feasibility cost estimate in the format prescribed will be performed. The estimate breakdown will be included in the report showing known quantities and costs. Allowances for indirect costs and contingencies are included.

<u>Annual Savings.</u> The report will show the annual savings in energy, quantities, demand, costs, and BTU's. As the report is written, these savings are merely the difference between existing and proposed.

<u>Discussion</u>. This section of the report describes a number of relevant factors including payback period, impact on labor or non-energy costs, O&M concerns, appearances, comfort, life extension, etc. The intent of this section is to address normal impacts or uncertainties of various improvement ideas.

### REPORT PREPARATION PHASE

The Contractor will prepare an Energy Analysis report which will fully document the steps previously described. The report will be prepared as follows.

<u>Executive Summary - Section 1.</u> The outline of the executive section is shown on Appendix B.

<u>Methodology - Section 2.</u> This part of the report describes the approach, sequence, assumptions, calculations methods, computer programs, sample outputs, etc. that were used for the study.

<u>Facility Description - Section 3.</u> The report will briefly discuss the buildings and systems covered by the study. It will show floor plans, layout flow diagrams, facility age and condition, major equipment characteristics by system, hours of operation, and concerns expressed by occupants and managers.

<u>Energy Use and Costs - Section 4.</u> The report will describe individual and combined energy consumption for the past two years. The report will describe rate structures, incremental cost calculations, trends, and analysis of use by source. This section critically establishes baseline use of energy for later improvement possibilities.

ECOs Recommended - Section 5. This section describes in detail each of the Energy Conservation Opportunities (ECOs) that are recommended for adoption and funding. The approach to each ECO write-up is described in Section 5, Project Documentation

ECOs Not Recommended - Section 6. The report will also show ECOs that were investigated but not recommended for adoption due to economics, conflicts, with other ECOs or concerns of operations.

<u>Discussion - Section 7.</u> This part of the report will cover interesting findings of the study not related to other sections of the report. It may include recommendations for non-energy problems, further studies, O&M procedures, training, etc.

<u>Attachments.</u> As part of the report, there will be enclosures for photos, backup calculations, referenced materials such as rate tariffs, codes, etc.

<u>Applications and Funding Requests.</u> As part of this study, applications for project funding will be made in accordance with Section 5, Project Documentation and directions from local authorized persons. The exact level of funding and funding program (expected to be ECIP), will be at the direction of the facility manager.

<u>Suggested Implementation Schedules.</u> The report will also contain a suggested timetable for implementing various projects or programs. This recommendation will be made in consultation with various facility managers.

Operation and Maintenance Instructions. Where appropriate, the study will recommend the formation of procedures or changes to processes that relate to improved energy usage and costs through Operation and Maintenance.

# APPENDIX B EXECUTIVE SUMMARY GUIDELINE,

- 1. Introduction:
- 2. Building Data (types, number of similar buildings, sizes etc.)
- 3. Present Energy Consumption of Buildings or Systems Studied.
- ♦ Total Annual Energy Used.
- Source Energy Consumption.

Electricity KWH, Dollars, BTU
Fuel Oil GALS, Dollars, BTU
Natural Gas THERMS, Dollars, BTU
Propane GALS, Dollars, BTU
Other QTY, Dollars, BTU

- 4. Reevaluated Projects Results.
- 5. Energy Conservation Analysis.
- ECOs Investigated.
- ECOs Recommended.
- ECOs Rejected. (Provide economics or reasons)
- ◆ ECIP Projects Developed. (Provide list)*
- Non-ECIP Projects Developed. (Provide list)*
- Operational or Policy Change Recommendations.
- * Include the following data from the life cycle cost analysis summary sheet; the cost (construction plus SIOH), the annual energy savings (type and amount), the annual dollar savings, the SIR, the simple pay back period and the analysis date.
- 6. Energy and Cost Savings.
- Total Potential Energy and Cost Savings.
- Percentage of Energy Conserved.
- Energy Use and Cost Before and After the Energy Conservation opportunities are Implemented.

### APPENDIX C, REQUIRED FORM DD1391 DATA,

To facilitate ECIP project approval, the following supplemental data shall be provided:

- 1. In title block clearly identify projects as "ECIP."
- 2. Complete description of each item of work to be accomplished including quantity, square footage, etc.
- 3. A comprehensive list of buildings, zones, or areas including building numbers, square foot floor area, designated temporary or permanent, and usage (administration, patient treatment, etc.).
- 4. List references, and assumptions, and provide calculations to support dollar and energy savings, and indicate any added costs.
- 4.1. If a specific building, zone, or area is used for sample calculations, identify building, zone or area, category, orientation, square footage, floor area, window and wall area for each exposure.
  - 4.2. Identify weather data source.
  - 4.3. Identify infiltration assumptions before and after improvements
- 4.4. Include source of expertise and demonstrate savings claimed. Identify any special or critical environmental conditions such as pressure relationships, exhaust or outside air quantities, temperatures, humidity, etc.
- 5. Lighting retrofit projects must identify number and type of fixtures, and wattage of each fixture being deleted and installed. New lighting shall be only of the level to meet current criteria. Lamp changes in existing fixtures is not considered an ECIP type project.
- 6. An ECIP life cycle cost analysis summary sheet as shown in the ECIP Guidance shall be provided for the complete project and for each discrete part included in the project. The SIR is applicable to all segments of the project. Supporting documentation consisting of basic engineering and economic calculations showing how savings were determined shall be included.
- 7. The DD Form 1391 face sheet shall include, for the complete project, the annual dollar and MBTU savings, SIR, simple amortization period and a statement attesting that all buildings and retrofit actions will be in active use throughout the amortization period

- 8. The calendar year in which the cost was calculated shall be clearly shown on the DD Form 1391.
- 9. For each temporary building included in a project, separate documentation is required showing (1) a minimum 10 year continuing need, based on the installation's annual real property utilization survey, for active building retention after retrofit,(2) the specific retrofit action applicable and (3) an economic analysis supporting the specific retrofit.
- 10. Non-appropriated funded facilities will not be included in an ECIP project without an accompanying statement certifying that utility costs are not reimbursable.
- 11. Any requirements required by ECIP guidance dated 10 Jan 1994 and any revisions thereto. Note that non-escalated costs and savings are to be used in the economic analyses.
- 12. The five digit category number for all ECIP projects except for Family Housing is 80000. The category code number for Family Housing projects is 71100.

### APPENDIX D CHILLER SYSTEM ECOS

Energy Savings Opportunities include but are not necessarily limited to:

Replace older chillers with new equipment including the following types:

- - Centrifugal
- Absorption (single and double effect)
- Direct fired
- - Steam turbine driven

Cooling tower optimization

Variable speed chilled water pumps

Ice or chilled water thermal storage systems

New chilled water plant

Partial new chilled water plant

Expand chilled water distribution and return systems

High efficiency motors

### APPENDIX E LIST OF AREAS/FACILITIES TO BE STUDYED,

This study will include a thorough understanding of recommended improvements to the following:

Central chilled water plant (Building 48) including all chillers, cooling towers, pumps auxiliaries, electrical supply and controls, internal chilled water piping, and physical structures.

Chilled water distribution system from the central plant to other buildings served by the chilled water plant. The system will include piping, insulation, valves, controls, and associated structures. Of special interest will be equipment life, condition, and capacity.

Facilities which currently or will potentially utilize chilled water including peak chilling demand, overall yearly use, and types of equipment served. There will be no attempt made to evaluate individual building performances or improvements but rather contributions to overall chilled water system energy use.

The electric distribution system as it may relate to the chilled water system.

Supplementary local chilled water plants, whether currently operating or not, including potential alternative modes of operation.

Additional Required Facilities

ROUTING AND	TRANSMITTAL SLIP	Date		
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MOBILE, ALABAMA 36628-0001 PHONE: (334) 441-5741							
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11. THIS ITEM	MONLY APPLIES TO .	AMENDMENTS OF SO	LICI	TATIONS			
The above numbered solicitation is amended as tended.	set forth in Item 14. The h	our and date specified for re	eceipt	of Offers	is extend	ed, is	not ex-
Offers must acknowledge receipt of this amendment	prior to the hour and date	specified in the solicitation	or as	amended, by o	ne of the fo	llowing metho	ods:
(a) By completing Items 8 and 15, and returning	copies of the amendr	nent; (b) By acknowledging	g rece	ipt of this amer	ndment on e	each copy of t	the offer
submitted; or (c) By separate letter or telegram white MENT TO BE RECEIVED AT THE PLACE DESIGN							
IN REJECTION OF YOUR OFFER. If by virtue of letter, provided each telegram or letter makes reference	this amendment you desir	e to change an offer already	y subn	nitted, such cha	ange may be	e made by tele	egram or
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IT MODIFIES T	HE CONTRACT/ORD	ER NO AS DESCRIBE	D IN	ITEM 14.			
A. THIS CHANGE ORDER IS ISSUED PURSU	ANT TO: (Specify author	ity) THE CHANGES SET F	FORT	H IN ITEM 14	ARE MADI	E IN THE COI	N
B. THE ABOVE NUMBERED CONTRACT/OR appropriation date, etc.) SET FORTH IN ITE	DER IS MODIFIED TO R EM 14, PURSUANT TO TH	EFLECT THE ADMINISTR TE AUTHORITY OF FAR	RATI\ 43.10	/E CHANGES 3(b).	(such as cha	inges in paying	g office,
C. THIS SUPPLEMENTAL AGREEMENT IS E	NTERED INTO PURSUAN	TTO AUTHORITY OF:					
D. OTHER (Specify type of modification and as	uthority)						
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E. IMPORTANT: Contractor is not, L  14. DESCRIPTION OF AMENDMENT/MODIFICATION  14. DESCRIPTION OF AMENDMENT/MODIFICATION  15. IMPORTANT: Contractor is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is not, is		s document and return					hle 1
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Chilled Water Study, EEAP Pro	gram , Walter Re	ed Medical Cente	r, I	Washingto	n, D.C.		
CHANGE IN DELIVERY ORDER AMOU	NT: \$9,965.00	Increase					
TOTAL DELIVERY ORDER AMOUNT (	Including this M	odification):	\$134	4,959.00			
SEE STATEMENT OF REVISIONS							4
Except as provided herein, all terms and conditions of and effect.  NAME AND TITLE OF SIGNER (Type or print)		n Item 9A or 10A, as hereto					
					•	-	
ENTECH ENGINEERING		GENE L. CUR	TIS				
15B. CONTRACTOR/OFFEROR	}	16B. UNITED STATES OF	AME	RICA		16C. DATE SI	IGNED
(Signature of person authorized to sign)		(Signature of	Contr	acting Officer)			

### **INSTRUCTIONS**

Instructions for items other than those that are self-explanatory, are as follows:

- (a) Item 1 (Contract ID Code). Insert the contract type identification code that appears in the title block of the contract being modified.
- (b) Item 3 (Effective date).
  - (1) For a solicitation amendment, change order, or administrative change, the effective date shall be the issue date of the amendment, change order, or administrative change.
    - (2) For a supplemental agreement, the effective date shall be the date agreed to by the contracting parties.
    - (3) For a modification issued as an initial or confirming notice of termination for the convenience of the Government, the effective date and the modification number of the confirming notice shall be the same as the effective date and modification number of the initial notice.
    - (4) For a modification converting a termination for default to a termination for the convenience of the Government, the effective date shall be the same as the effective date of the termination for default.
    - (5) For a modification confirming the contracting officer's determination of the amount due in settlement of a contract termination, the effective date shall be the same as the effective date of the initial decision.
- (c) Item 6 (Issued By). Insert the name and address of the issuing office. If applicable, insert the appropriate issuing office code in the code block.
- (d) Item 8 (Name and Address of Contractor). For modifications to a contract or order, enter the contractor's name, address, and code as shown in the original contract or order, unless changed by this or a previous modification.
- (e) Items 9, (Amendment of Solicitation No.—Dated), and 10, (Modification of Contract/Order No.—Dated). Check the appropriate box and in the corresponding blanks insert the number and date of the original solicitation, contract, or order.
- (f) Item 12 (Accounting and Appropriation Data). When appropriate, indicate the impact of the modification on each affected accounting classification by inserting one of the following entries:

(1) Accounting classification	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Net increase	\$

(2) Accounting classification	
Net decrease	\$

NOTE: If there are changes to multiple accounting classifications that cannot be placed in block 12, insert an asterisk and the words "See continuation sheet".

- (g) Item 13. Check the appropriate box to indicate the type of modification. Insert in the corresponding blank the authority under which the modification is issued. Check whether or not contractor must sign this document. (See FAR 43.103.)
- (h) Item 14 (Description of Amendment/Modification).
  - (1) Organize amendments or modifications under the appropriate Uniform Contract Format (UCF) section headings from the applicable solicitation or contract. The UCF table of contents, however, shall not be set forth in this document.
  - (2) Indicate the impact of the modification on the overall total contract price by inserting one of the following entries:
    - (i) Total contract price increased by \$
    - (ii) Total contract price decreased by \$
    - (iii) Total contract price unchanged.
  - (3) State reason for modification.
  - (4) When removing, reinstating, or adding funds, identify the contract items and accounting classifications.
  - (5) When the SF 30 is used to reflect a determination by the contracting officer of the amount due in settlement of a contract terminated for the convenience of the Government, the entry in Item 14 of the modification may be limited to
    - (i) A reference to the letter determination; and
    - (ii) A statement of the net amount determined to be due in settlement of the contract.
  - (6) Include subject matter or short title of solicitation/contract where feasible.
- (i) Item 16B. The contracting officer's signature is not required on solicitation amendments. The contracting officer's signature is normally affixed last on supplemental agreements.

### **Consulting Engineers**

Principals:
Daniel J. Castellani, PE
Thomas M. McMahon, PE
William M. McMahon Jr., PE

# **ENTECH**

April 12, 1995

Mr. Stephen J. Mlecik, P.E. Commander, U.S. Army Engineer District, Norfolk Attn: CENAO-EN-MP 803 Front Street Norfolk, VA 23510-1096

Re: Indefinite Delivery-Type Contract No. DACA01-94-D-0037-003

Scope Change Request - Revised

### Dear Steve:

During the Interim Review Meeting at Walter Reed Army Medical Center (WRAMC) in March, we discussed additional analysis which the Base would like though not currently covered in our contractual scope of work. Several different items were identified by WRAMC personnel as helpful information in determining the feasibility of possible energy reduction measures. These opportunities were discussed as potential ways to reduce chilled water consumption in order to offset a portion of the current chiller plant shortfall.

The first group of opportunities include external and internal building system modifications which would target reduction in individual building cooling loads. Specific items to be evaluated are as follows:

- Replace existing single pane operable windows with new insulated glass windows. This evaluation will include Buildings 1, 7, 11, 40 and 41.
- Replace existing lighting with energy efficient light fixtures. This evaluation will include Buildings 1, 2, 7, 11, 40, 41, and 54.
- Reduce outside air quantities in buildings with uses that do not require once-through ventilation. This evaluation will include Buildings 1 and 40.
- Upgrade existing temperature controls with new automatic temperature controls to provide unoccupied setback. This evaluation will include Buildings 1, 7, 11, 40, and 41.



4 South Fourth Street P.O. Box 32 Reading Pennsylvania 19603

Uttice 610.373.6667

Mr. Stephen J. Mlecik, P.E. April 12, 1995 Page -02-

The second area of concentration is Building 2 - Heaton Pavilion. Specific operating problems with the hot water heating system have resulted in the necessity to set several preheat coils artificially high to avoid coil freeze up problems. This problem may be the result of an unbalanced water system. It was identified that final water system balancing was never done at the completion of construction in the late 1970's. This evaluation would evaluate possible energy savings as the direct result of balancing the reheat system in Building 2 and returning preheat coil discharge temperatures to their proper setpoint during winter operation.

In order to accomplish the aforementioned goals, Entech will provide the following services. Entech will perform a walkthrough of Buildings 1, 2, 7, 11, 40, 41 and 54 to verify general existing systems. This walkthrough will include discussions with WRAMC personnel to help in the clarification and operation of all systems being evaluated. The second step will be to run the EZDOE load simulation program for each of these buildings to calculate reduction in cooling loads to determine potential energy savings. Each of these evaluations will be prepared as individual alternatives and incorporated into the final report under the format currently established in the Interim submission.

In order to incorporate these additions to the scope of work, Entech proposes a contract increase of \$9,965.00. A detailed breakdown of this estimate follows on Attachment A. This work includes additional support for Applications for Funding (Form 1391) as identified in the original contract.

This additional scope can be incorporated into the study with no change to the current project schedule.

Should you have any questions, please call me.

Sincerely,

Edward L. Caulkins, P.E.

Project Manager

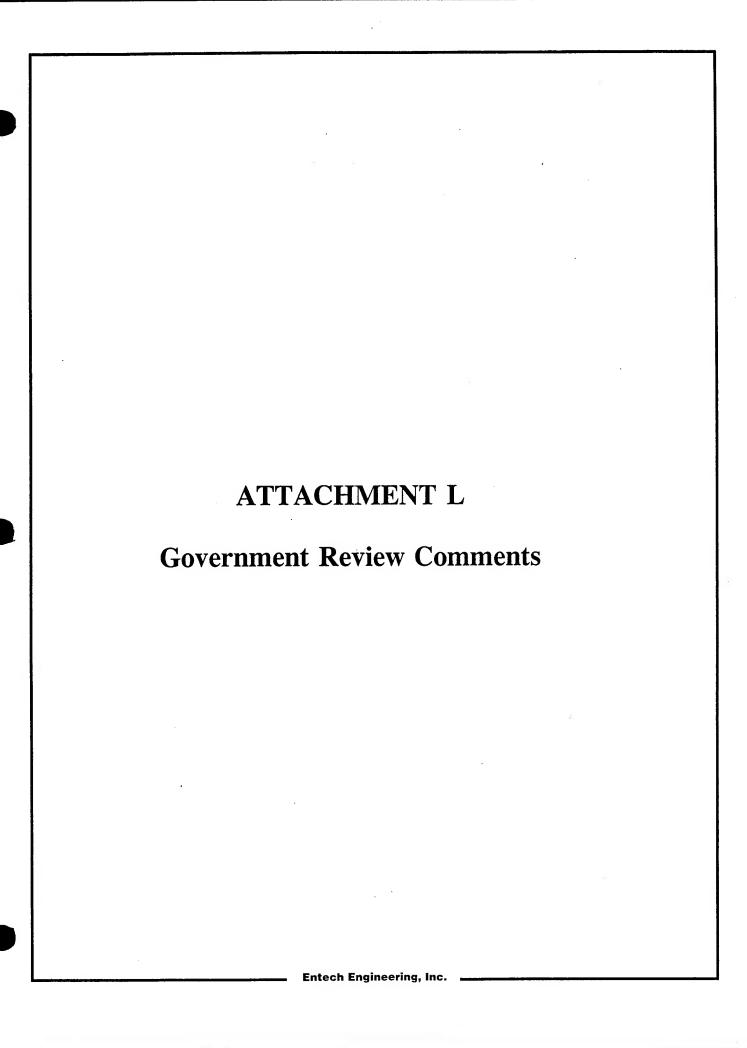
Enclosure

cc: William McMahon, Jr., P.E.

# EEAP — CORPS OF CAINEERING, U.S. ARMY WALTER REED MEDICAL CENTER — CHILLER STUDY — SCOPE CHANGE REQUEST

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# WALTER REED ARMY MEDICAL CENTER

# FAX TRANSMITTAL SHEET



FPOM:			
FROM: Regina Larrabee		OFFICESTABOL	THE NUMBER
WASHINGTON. DC 20307-5001		MCHL-PW	AUTO. 642-03/5 COMM. (202) 782-03/5
TO: Ed Caulkins			
ENTECH			610-373-6667
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## COMMENTS:

Ed -

- 1. Enclosed are our comments regarding Prefinel (95%) submittal of EEAP Study.
- 2. Sorry for the delay.

Regine Landen

### **MEMORANDUM**

FROM:

Richard D. Lippy, Henry Adams, Inc.

TO:

Mr. Abbas Keshavarz, Walter Reed Army Medical Center

DATE:

September 21, 1995

PROJECT:

CORPS OF ENGINEERS -

INDEFINITE DELIVERY CONTRACT -

WALTER REED ARMY MEDICAL CENTER

HAI PROJECT NO. C018700 ..

SUBJECT:

Review of "Chilled Water Study EEAP Program" dated August 1995 by

ENTECH Engineering

At your request we have performed a review of referenced Report Books 1 and 2 that we received September 19, 1995. This review is very limited and comments provided may be addressed somewhere in the report or may not be in the scope of the EEAP Program.

1. Page 1-3: It is unfortunate the EEAP requirements did not allow evaluation of chiller capacity that provides capacity to meet at least the present peak-cooling load. With the development of present day chiller efficiencies and capacities additional capacity may be possible with the same quantity of chillers. It is difficult to determine how the chiller operation was modeled. Models should operate only the required chillers or chiller combinations operating at maximum efficiency for required load.

It is difficult to determine what energy value was used for base model for comparison with alternatives.

### 2. <u>Table 1.2</u>

Alternative No. 3 - Won't the upgrade of free cooling system have added maintenance cost. Added maintenance cost are indicated for Alternatives 6 and 7.

Alternative No. 5 - Shows same annual savings of maintenance cost as 1 and 4 to upgrade existing plants. No. 5 is a totally new plant and must have lower maintenance cost than upgraded plant.

Should the benefits of energy cost of No. 5 be compared to 1 and 4 for realistic comparison?

Alternative No. 8. Why isn't there energy savings for off hours chiller operation at lower W.D. and D.B. for improved chiller efficiencies? Also lower rate schedule.

Alternative No. 11 - Do energy savings reflect higher reheat cost in building with constant volume i.e. labs. If air quantities aren't reduced reheat will increase to provide for heat from lights that are removed.

An alternative for ice storage should be more cost effective than chilled water storage. If partial storage is considered.

- -a. - Requires less storage volume.
- b. Chiller efficiency is higher when used to melt ice.
  - c. Lower temperature and higher temperature differences can reduce primary system component sizes, and greatly reduce pumping costs.
  - d. An ice storage system would provide the opportunity to use low-temperature supply air system.
- 3. Report does not seem to address benefits of central chiller plant (new or existing) to reduce operation of existing lower efficiency DX systems.

### 4. Page 3-6

While under date of this report ASHRAE Standard 15 for refrigeration systems was Standard 15-1992. ASHRAE Standard 15-1994 has now been adopted by ASHRAE. There are changes that have minor affect on report. For example only refrigerant leak sensors are required for all refrigerants. Oxygen sensors are not required.

- 5. It is not clear if new chillers are analyzed based on more than 10 deg F chilled water temperature rise with associated benefits of reduced GPM.
- 6. It is not clear if maintenance cost projections for existing chillers reflect current CFC cost of \$10 per pound. These costs will continue to increase. A chilled water or ice storage system will reduce refrigerant quantities.
- 7. Fuel oil usage based on deliveries does not show when fuel was actually used.
- 8. Page 5-9 Process loads and use of chilled water for condenser water is addressed but is never further evaluated. The low efficiency use of chilled water appears to be put back in under preheat coil temperature reset and may overstate preheat coil issue energy savings.

Rebalance may not correct freeze issue if maximum flows for 2 fps are not maintained. For 100% O.A. systems max. freeze potential occurs above design condition when flow through preheat coil is reduced. Maintain constant flow and vary water temperature. Also parallel flow puts hottest water at coolest air. If coils are counter flow lowest water temperature is at coldest air. Construction cost of \$30,000 may not address piping, pump and valving changes.

Should a process loop for buildings be evaluated?

- 9. Page 5-17 Address system shortfall of 3350 tons however report does not provide any suggested method to provide sufficient capacity.
- 10. Page 7-3 ASHRAE Standard 62-1989 does not simply allow for averaging number of people over entire building area with associated ventilation rate. The prescribed quantity of outdoor air must-be-maintained in each space.
  - 11. Page 7-8 To allow space temperature of 85° when unoccupied may require more cooling to "pull down" to 75° 1222 benefit of setback. Often not properly considered by system models.

This report has a lot of useful data and with some additional analysis and consideration of some of the alternates there could be economic solutions to improve energy usage and increase capacity. However, EEAP guidelines may not provide for practical increase of capacity.

#### COMMENTS: 95% SUBMITTAL BEAP STUDY

- 1. I question whether or not Operation & Maintenance savings are accurately reflected in this analysis. As a minimum, aging equipment that is replaced by new equipment should breakdown less often. Also, without these equipment replacements, ultimate failure (and replacement) of the existing equipment is not far away.
- 2. Most of the Alternatives discussed do not seem to address one of the main issues the need to eliminate the individual building chillers, and reduce the costs for operating and maintaining this additional equipment scattered all over the post. One of the main goals of the proposal was to expand the centralized chilled water system. Expansion of the chilled water system to provide adequate capacity for all the buildings on Main Post must be part of the analysis. The current equipment configuation is not only inadequate, but cannot be maintained properly by our limited in-house staff.

Regina M Larrabee

Energy Conservation Engineer

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2. Most of the Alternatives discussed do not seem to address one of the main issues --- the need to eliminate the individual building chillers, and reduce the costs for operating and maintaining this additional equipment scattered all over the post. One of the main goals of the proposal was to expand the centralized chilled water system. Expansion of the chilled water system to provide adequate capacity for all the buildings on Main Post must be part of the analysis. The current equipment configuation is not only inadequate, but cannot be maintained properly by our limited in-house staff.

Regina M Larrabee Energy Conservation Engineer

4130.02

11-01-95 12:51PM FROM 2

Page 1 of 1 MOBILE DISTRICT PROJECT REVIEW COMMENTS: IDATE: 13 Sept 1995 FROM: Robert & Woodruff, CBBAM-EN-DM TO: U.S. Army Corps of Engr. Norfolk District Phone: (334) 694-6074 FAX: (334) 690-2424 Norfolk, Virginia PROJECT/PY: Walter Read Army Medical Center Chilled Water Study LOCATION: Washington, D. C. TYPE REVIEW: Pro-Final Response to Comment COMMENT NO. Pago/Par Alternative 13 should be recommended for approval if it mosts the ECIP requirements. Page 1-6 The total chilled water production capacity listed is different than that listed an page 1-Page 3-6 The year to year differences in the Contractual Maintenance amounts are very large. Is Page 3there a reason for these large differences? The amount of fuel oil used in the fall and spring differs greatly in these two yearly Page 4 time periods . Is there a reason for this? There must be very large process loads in the served facilities to cause the large Page 5-6 5. difference between the calculated loads and chiller log data. and Page 5-8. · The capacity shortfall is simost 30% of the total capacity. Please elaborate on how this Page 5ć. significant shortfall is handled. 17 Do the numerous air-cooled DX seeding units have a large effect on the electrical Page 6-8 7. demand? Please claborate on handling this load with the central chilled water system or some other more energy efficient means. Alternative No. 8 is based on reducing the amount of outside air. The volume of Page 7-3 8. outside sir shown is an estimate. This volume needs to be more accurately measured. Is it possible to estimate the cost of return air systems in order to run an economic Page 7-4 9. analysis for this alternative 7 The cost estimates in this alternative appear to be off by a factor of 10. Windows do 10. Page 7not cost \$47.50 per square foot.

## **Response to Review Comments**

# Walter Reed Army Medical Center Chilled Water Study DACA01-94-D-0037

1. CESAM-EN-DM

Reviewer: Robert S. Woodruff

Item #1

Section 10, Page 10-6 —

Comment:

Alternative No. 13 should be recommend for approval if it

meets the ECIP requirements.

Response:

Section 10, Page 10-6, Paragraph 10.3 explains reasoning for not recommending the Cogeneration Alternative. The scope of the study is for the Central Chilled Water Plant

only. In order to prepare the Cogeneration ECO,

assumptions regarding the Central Plant heating were made.

The results of this Alternative suggest that further

investigation of Cogeneration is warranted. However, due to the limited scope of this study, pursuing appropriation for

this Alternative would be premature.

Item #2

Section 3, Page 3-6 —

Comment:

The total chilled water production capacity listed is different

than that listed on Page 1-3.

Response:

Page 3-6 has been revised.

Item #3

Section 3, Page 3-18 —

Comment:

The year to year differences in the Contractual Maintenance

amounts are very large. Is there a reason for those large

differences?

Response:

Data is based on actual data cost sheets for Contractual Maintenance Services, furnished by WRAMC. Looking at this data, it appears that WRAMC had some major repair work done on specific chillers in 1992 and again in 1994. Fiscal year 1993 indicates more mundane contract repairs were conducted. Reference Attachment J in Book 2 of 2.

Item #4 Section 4, Page 4-12 —

Comment: The amount of fuel oil used in the Fall and Spring differs

greatly in those two yearly time periods. Is there a reason

for this?

Response: Differences in fuel oil consumption reflect natural gas

interruptions due to the severe Winter of 1994.

Item #5 Section 5, Pages 5-6 and 5-8 —

Comment: There must be very large process loads in the served

facilities to cause the large difference between the calculated

loads and chiller log data.

Response: Entech concurs with the statement as described on

Page 5-9.

Item #6 Section 5, Page 5-17 —

Comment: The capacity shortfall is almost 30% of the total capacity.

Please elaborate on how this significant shortfall is handled.

Response: Section 6, Page 6-3 - Paragraph 6.2.2, provides information

on chilled water deficiencies.

Item #7 Section 6, Page 6-8 —

Comment: Do the numerous air-cooled DX cooling units have a large

effect on the electrical demand? Please elaborate on handling this load with the central chilled water system or

some other more energy efficient means.

Response: Existing Chilled Water Plant's total — 9,840 tons. We

believe that the numerous DX units amount to less than 5% of all site cooling capabilities, which has no significant effect

on demand. The scope did not include quantifying or analyzing individual air-cooled DX units. Therefore,

sufficient data is not available to elaborate on handling these loads with the central chilled water system or other energy-

efficient means.

Item #8 Section 7, Page 7-3 —

Comment: Alternative No. 8 is based on reducing the amount of outside

air. The volume of outside air shown is an estimate. This

volume needs to be more accurately measured.

Response: Entech agrees with the basis of this statement, however, the

only more accurate means to quantify outside air quantities is to actually measure these quantities. Existing testing and balancing reports were not available, and performing an

actual balance is beyond the scope of this study.

Item #9 Section 7, Page 7-4 —

Comment: Is it possible to estimate the cost of return air systems in

order to run an economic analysis for this Alternative?

Response: Individual building HVAC system evaluations are not within

the scope of this study. Therefore, development of cost

estimates for return air systems in not included.

Item #10 Section 7, Page 7-29 —

Comment: The cost estimate in this Alternative appears to be off by a

factor of 10. Windows do not cost \$47.50 per square foot.

Response: Means Building Construction Cost Data indicates windows

cost approximately \$40/sf for stock windows. Most windows for these buildings are not stock sizes, and

therefore, we would not expect the cost to be less than the

\$47.50/sf of window estimated.

2. Reviewer: Richard D. Lippy

Henry Adams, Inc.

Item #1

Section 1, Page 1-3 —

Comment:

It is unfortunate the EEAP requirements did not allow evaluation of chiller capacity that provides capacity to meet at least the present peak-cooling load. With the development of present day chiller efficiencies and capacities, additional capacity may be possible with the same quantity of chillers. It is difficult to determine how the chiller operations was modeled. Models should operate only the required chillers or chiller combination, operating at maximum efficiency for

required load.

It is difficult to determine what energy value was used for

base model for comparison with Alternatives.

Response:

Chillers were modeled to reflect current operating practices as stated in Section 5.0. Alternative baseline energy costs only reflect the components which are addressed within that

Alternative.

Item #2

Section 1, Table 1.2 —

Comment:

Alternative No. 3 — Won't the upgrade of free cooling system have added maintenance cost? Added maintenance

cost are indicated for Alternatives No. 6 and 7.

Response:

Operation of the free cooling system reduces operation of the central chillers. This, in turn, lowers maintenance for the chillers subsequently off-setting any increase from the free

cooling system operation.

Comment:

Alternative No. 5 — Shows same annual savings of maintenance cost as Alternatives No. 1 and 4 to upgrade existing plants. Alternative No. 5 is a totally new plant and must have lower maintenance cost than upgraded plant.

Response:

Entech agrees; however, the stated maintenance costs for all options including existing installtion, are based on chillerspecific maintenance costs only. If should be noted that additional maintenance savings will not effect the economics of this Alternative. The construction cost for this

Alternative greatly outweighs any additional maintenance savings benefit. Refer to Comment No. 2 from Regina

Larrabee.

Comment:

Should the benefits of energy cost of Alternative No. 5 be

compared to Alternatives No. 1 and 4 for realistic

comparison?

Response:

Based on our interpretation of the comment, we believe that the evaluation of each of these Alternatives must be

compared against the existing condition. Resulting payback and SIR values will determine the feasibility with each

Alternative.

Comment:

Alternative No. 5 — Why isn't there energy savings for offhour chiller operation at lower W.B. and D.B. for improved

chiller efficiencies? Also a lower rate schedule.

Response:

Section 6, Page 6-51, displays proposed operation of the Chilled Water Plant. The DOE Program incorporates weather data conditions in load and energy calculations.

Comment:

Alternative No. 11 — Do energy savings reflect higher reheat cost in building with constant volume, i.e., labs? If air quantities aren't reduced, reheat will increase to provide

for heat from lights that are removed.

Response:

The DOE Program takes this into account as shown on Table

7.5.4.1 on Page 7-23.

Comment:

An Alternative for ice storage should be more cost effective than chilled water storage. If partial storage is considered,

- Α. Requires less storage volume.
- В. Chiller efficiency is higher when used to melt ice.
- C. Lower temperature and higher temperature differences can reduce primary system component sizes and greatly reduce pumping costs.

D. An ice storage system would provide the opportunity to use low-temperature supply air system.

Response:

- A. Entech concurs that an equivalent size ice storage system is physically smaller than a chilled water storage system due to the increased latent heat of fusion of ice during its phase change to water.
- B. Chiller efficiency is higher when used to melt ice.
  Chiller efficiency is also lower when generating ice at reduced temperatures with a brine solution.
- C. It is true that use of lower-temperature chilled water allows for higher operation temperature differences and consequently lower primary water flows. However, the existing HVAC systems on the Post are not designed to operate with lower flow, higher differential temperature chilled water. This type of system can be used; however, system modifications throughout the Post must be made to accommodate its use. These modifications will result in additional capital and maintenance costs to be incorporated into the Life-Cycle Cost Analysis.
- D. Entech concurs that an ice storage system does provide the opportunity to use low-temperature supply air systems. However, these systems do not exist on the Post at the present time, and therefore were not considered as part of this study. While renovations could be designed in the future to accommodate low-temperature supply air systems, the entire chilled water system would need to be designed to accommodate this change. This change would increase capital cost for the storage system and the downstream HVAC systems in all connected buildings on the Post.

#### Item #3

Report does not seem to address benefits of Central Chiller Comment:

Plant (new or existing) to reduce operations of existing low

efficiency DX systems.

Refer to Robert S. Woodruff review comments, Item #7 of Response:

this report.

Item #4 Section 3, Page 3-6 —

> Comment: While under date of this report, ASHRAE Standard 15 for

> > refrigeration systems was Standard 15-1992. ASHRAE Standard 15-1994 has now been adopted by ASHRAE. There are changes that have minor affect on report. For example, only refrigerant leak sensors are required for all

refrigerants. Oxygen sensors are not required.

Difference is acknowledged. The cost difference between Response:

oxygen and refrigerant sensors is insignificant when

compared to the overall construction cost of the Alternative.

Item #5

It is not clear if new chillers are analyzed based on more Comment:

than 10°F chilled water temperature rise with associated

benefits of reduced GPM.

Response: Existing chiller plants, with the exception of Building 49,

were designed for a 10°F temperature rise as were the

existing building cooling systems. The operating

temperature differential was not changed for this evaluation.

A change in system operating temperature could be

considered but may require existing equipment modification which would increase construction costs and offset additional potential energy savings via reduced pumping horsepower.

Item #6

It is not clear if maintenance cost projections for existing Comment:

chillers reflect current CFC cost of \$10 per pound. These costs will continue to increase. A chilled water or ice

storage system will reduce refrigerant quantities.

Response:

Maintenance costs specifically for CFC replacement in existing chillers is not identified. The replacement of individual chillers meets the criteria of payback and SIR regardless of the CFC costs. In Alternatives evaluating the construction of new Chiller Plants, the net effect of CFC replacement costs does not have any appreciable effect on the payback or SIR values. At the time of the study, there is no known quantity of CFC replacement which has been logged on the site.

Item #7

Comment:

Fuel oil usage, based on deliveries, does not show when fuel

was actually used.

Response:

Fuel oil usage data does not affect this study, since this

study evaluates the chilled water systems and not the central

heating system.

Item #8

Section 5, Page 5-9 —

Comment:

Process loads and use of chilled water for condenser water is addressed but is never further evaluated. The low efficiency use of chilled water appears to be put back in under preheat coil temperature reset and may overstate preheat coil issue energy savings.

Rebalance may not correct freeze issue if maximum flows for 2 fps are not maintained. For 100% O.A. systems, maximum freeze potential occurs above design condition when flow through preheat coil is reduced. Maintain constant flow and vary water temperature. Also, parallel flow puts hottest water at coolest air. If coils are counter flow, lowest water temperature is coolest air. Construction cost of \$30,000 may not address piping, pump, and valving changes.

Should a process loop for buildings be evaluated?

Response:

DOE was rerun using data provided on Page 7-18. This data was provided by WRAMC. The revised DOE results closely resembled actual chiller log data, which in turn, substantiates the statements on Page 5-9.

Freeze protection for preheat coils is a reasonable concern. If the original system design is inadequate to provide freeze protection, additional system modifications would be required to protect these coils. The estimated \$30,000 construction cost only covers balancing and adjustment, and does not cover physical changes to equipment and piping design deficiencies.

The addition of a process cooling loop may have some merit; however, this is not part of the scope of this study as it goes into internal building system's design.

Item #9

Section 5, Page 5-17 —

Comment:

Address system shortfall of 3350 tons, however, report does

not provide any suggested method to provide sufficient

capacity.

Response:

Section 6, Page 6-2, Paragraph 6.1.1 and Section 1, Page 1-3 state that cooling shortfall solutions will not be addressed

nor were they part of the scope.

Item #10

Section 7, Page 7-3 —

Comment:

ASHRAE Standard 62-1989 does not simply allow for averaging number of people over entire building area with associated ventilation rate. The prescribed quantity of

outdoor air must be maintained in each space.

Response:

Detailed evaluation of internal HVAC systems is beyond the

scope of this study.

Item #11 Section 7, Page 7-8 —

Comment: To allow space temperature of 85°F, when unoccupied, may

require more cooling to "pull down" to 75°F from benefit of setback. Often not properly considered by system models.

Response: The DOE software utilized, operates on an hourly

calculation method and does take "pull down" loads into

account. Simulations were performed at 80°F and

85°F setbacks in which the latter provided the most savings.

#### 3. MCHL-PW

Reviewer:

Regina Larrabee

DPW/Energy Engineer

#### General Comments —

Item #1

I question whether or not operation and maintenance savings are accurately reflected in this analysis. As a minimum, aging equipment that is replaced by new equipment should breakdown less often. Also, without these equipment replacements, ultimate failure (and replacement) of the existing equipment is not far away.

Response:

Existing operation and maintenance savings are based on data received from WRAMC. These costs were reviewed to determine the total cost related to equipment evaluated in the study. Where equipment is replaced, maintenance costs were reduced by 67%. We agree that the operation cost was not reduced. In Alternative No. 5, which proposes a new Chilled Water Plant, we ran a new LCCID with the current operations cost reduced by 50%. The attached results indicate that there is no significant change in SIR or payback.

#### Alternate No. 5 —

### Current Study —

Simple Payback	=	31.30 years
SIR	=	0.50

#### Revised LCCID -

Simple Payback	=	27.68 years
SIR	=	0.56

Item #2

Most of the Alternatives discussed do not seem to address one of the main issues — the need to eliminate the individual building chillers and reduce the cost for operating and maintaining this additional equipment scattered all over the Post. One of the main goals of the proposal was to expand the centralized chilled water system. Expansion of the chilled water system to provide adequate capacity for all the buildings on Main Post must be part of the analysis. The current equipment configuration is not only inadequate, but cannot be maintained properly by our limited in-house staff.

Response:

The desire for an expanded or replacement, centralized Chilled Water Plant is understood by all persons affiliated with this study. This study points out and identifies the known shortages in the current Chilled Water Plants. We also understand the strain which the Main Post experiences in order to keep these numerous systems and components operating. However, the study is subject to the rules and regulation of the EEAP Program. We cannot evaluate existing capacity directly against required capacity. Under the requirements of this study, all recommended Alternatives must meet specified payback and SIR standards. By expanding the plant size to accommodate known shortages, we are negatively impacting the evaluation standards by which each Alternative is measured. Alternatives which propose new Chilled Water Plants are evaluated as equal capacity to the present system. However, the schematic development of these options has been done in a manner which allows for modular growth to accommodate known shortages.

Entech agrees that a new Central Plant would dramatically improve WRAMC's operations, maintenance, and controllability. Unfortunately, a new Chilled Water Plant of this magnitude cannot be financed solely on energy and maintenance savings. The overall cost is too high in comparison with energy saved as identified in Alternatives No. 4 and 5. There are numerous other reasons for a new Central Plant, but these reasons do not fall under the criteria of the EEAP Program.

END OF RESPONSE

LIFE CYCLE COST ANALYSIS SUMMARY STUDY: WALTER1
ENERGY CONSERVATION INVESTMENT PROGRAM (ECIP) LCCID FY95 (92) REGION NOS. 3 CENSUS: 3 INSTALLATION & LOCATION: PROJECT NO. & TITLE: FISCAL YEAR DISCRETE PORTION NAME: ALT#5 ANALYSIS DATE: 02-14-96 ECONOMIC LIFE 20 YEARS PREPARED BY: 1. INVESTMENT A. CONSTRUCTION COST \$ 17000000.

B. SIOH \$ 900000.

C. DESIGN COST \$ 1000000.

D. TOTAL COST (1A+1B+1C) \$ 18900000. E. SALVAGE VALUE OF EXISTING EQUIPMENT \$ F. PUBLIC UTILITY COMPANY REBATE \$
G. TOTAL INVESTMENT (1D - 1E - 1F) 0. \$ 18900000. 2. ENERGY SAVINGS (+) / COST (-) DATE OF NISTIR 85-3273-X USED FOR DISCOUNT FACTORS OCT 1993 UNIT COST SAVINGS ANNUAL \$ DISCOUNT DISCOUNTED \$/MBTU(1) MBTU/YR(2) SAVINGS(3) FACTOR(4) SAVINGS(5) A. ELECT \$ 18.92 27636. \$ 522873. 15.61 \$ 8162050. B. DIST \$ .00 0. \$ 0. 17.56 \$ 0. C. RESID \$ .00 0. \$ 0. 19.97 \$ 0. D. NAT G \$ 3.67 -999. \$ -3666. 20.96 \$ -76846. E. COAL \$ .00 0. \$ 0. 17.58 \$ 0. F. LPG \$ .00 0. \$ 0. \$ 0. 17.58 \$ 0. M. DEMAND SAVINGS \$ 0. 16.12 \$ 0. M. TOTAL 26637. \$ 519207. \$ 8085203. 3. NON ENERGY SAVINGS (+) / COST (-) \$ 163500. A. ANNUAL RECURRING (+/-) (1) DISCOUNT FACTOR (TABLE A) 14.74 \$ 2409990. (2) DISCOUNTED SAVING/COST (3A X 3A1) B. NON RECURRING SAVINGS (+) / COSTS (-) SAVINGS(+) YR DISCNT DISCOUNTED

COST(-) OC FACTR SAVINGS(+)/

(1) (2) (3) COST(-)(4) ITEM · s o. d. TOTAL C. TOTAL NON ENERGY DISCOUNTED SAVINGS(+)/COST(-)(3A2+3Bd4)\$ 2409990.

4. FIRST YEAR DOLLAR SAVINGS 2N3+3A+(3Bd1/(YRS ECONOMIC LIFE))\$ 682707.

27.68 YEARS 5. SIMPLE PAYBACK PERIOD (1G/4)

\$ 10495190. 6. TOTAL NET DISCOUNTED SAVINGS (2N5+3C)

7. SAVINGS TO INVESTMENT RATIO (SIR) = (6 / 1G) = .56 (IF < 1 PROJECT DOES NOT QUALIFY)

.11 % 8. ADJUSTED INTERNAL RATE OF RETURN (AIRR):